May 1976 Number 381-Part II

# Solar-Geophysical Data comprehensive reports

Data for November 1975–October 1975 & Miscellanea

Explanation of Data Reports Issued as Number 378 (Supplement) February 1976

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / ASHEVILLE, N.C.

U.S. DEPARTMENT OF COMMERCE
Elliot L. Richardson, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Robert M. White. Administrator
ENVIRONMENTAL DATA SERVICE
Thomas S. Austin, Director

# Solar - Geophysical Data

NO. 381 MAY 1976

## Part II (Comprehensive Reports)

DATA FOR
NOVEMBER 1975
OCTOBER 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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# SOLAR - GEOPHYSICAL DATA

No. 381

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. ° | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| | 01 | 0237 | 0243 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 01 | 0304 | 0339 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 01 | 0345 | 0353 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 01 | 0357 | 0403 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 01 | 0437 | 0443 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 01 | 0457 | 0459 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 0639 | 0720 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 0725 | 0732 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 2010 | 2104 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 2112 | 2230 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62927 | 04 | 0827+7 | 0836 | 0856 | N03 | E88 | .999 | 13926 | 11.0 | 29 | -N | | C | | | | AD |
| ARCE | 04 | 0827E | | 0907D | N03 | E88 | .999 | 13926 | 11.0 | 40D | -N | | C | 0853 | 48 | | |
| ABST | 04 | 0834 | 0836 | 0845 | N04 | E88 | .999 | 13926 | 11.0 | 11 | 1F | | C | 0836 | 131 | | AD |
| 928 ARCE | 04 | 0927E | | 0950D | S03 | E63 | .894 | 13927 | 9.1 | 23D | -F | | C | 0944 | 60 | .8 | |
| 929 HTPR | 04 | 1019 | 1021 | 1027 | N05 | E90 | 1.000 | 13926 | 11.2 | 8 | -F | | C | 1021 | 10 | | |
| 930 HTPR | 04 | 1047 | 1049 | 1051 | N05 | E90 | 1.000 | 13926 | 11.2 | 4 | -F | | C | 1049 | 10 | | |
| 931 HTPR | 04 | 1122 | 1123 | 1125 | S03 | E33 | .555 | 13922 | 6.9 | 3 | -F | | C | 1123 | 10 | .1 | |
| 932 HTPR | 04 | 1150 | 1152 | 1156 | N05 | E90 | 1.000 | 13926 | 11.2 | 6 | -F | | C | 1152 | 20 | | |
| 933 HTPR | 04 | 1218 | 1219 | 1223 | N05 | E85 | .996 | 13926 | 10.9 | 5 | -F | | C | 1219 | 20 | | |
| 934 PALE | 04 | 2050 | 2050 | 2106 | N04 | E80 | .984 | 13926 | 10.9 | 16 | -F | 2 | C | | 6 | | DE |
| GRP62935 | 05 | 0041E | 0041 | 0047 | N04 | E77 | .973 | 13926 | 10.8 | 6 | -F | | | | 20 | | |
| PALE | 05 | 0041E | 0041U | 0047 | N04 | E76 | .969 | 13926 | 10.7 | 6D | -F | 2 | C | | 15 | | DE |
| MANI | 05 | 0043E | 0043U | 0047 | N04 | E79 | .981 | 13926 | 11.0 | 4D | -F | 3 | V | 0043 | 20 | .5 | |
| | 05 | 0237 | 0325 | NO FLARE PATROL | | | | | | | | | | | | | |
| 936 ABST | 05 | 0649E | 0649 | 0701D | N04 | E75 | .965 | 13926 | 10.9 | 12D | 1F | | F | 0649 | 175 | | F |
| 937 ISTA | 05 | 0810E | | 0830 | N02 | E71 | .945 | 13926 | 10.7 | 20D | -N | | | | | | D |
| 938 MONT | 05 | 0835E | 0835 | 0844D | N04 | E74 | .960 | 13926 | 10.9 | 9D | -N | | C | 0835 | 110 | | B |
| GRP62939 | 05 | 0943E | 0956 | 1015 | N04 | E71 | .944 | 13926 | 10.7 | 32 | -F | | | | | | E |
| HTPR | 05 | 0943E | | 0949 | N04 | E72 | .950 | 13926 | 10.8 | 6D | -F | | C | 0944 | 10 | | |
| HTPR | 05 | 0948 | 0956 | 1015 | N05 | E71 | .944 | 13926 | 10.7 | 27 | -F | | C | 0956 | 30 | | E |
| GRP62940 | 05 | 1018>9 | 1033 1051 | 1225 | N04 | E71 | .944 | 13926 | 10.8 | 127 | -F | | | | | | EK |
| MONT | 05 | 1018 | 1051 | 1210D | N04 | E73 | .955 | 13926 | 10.9 | 112D | -N | | C | 1051 | 50 | | K |
| HTPR | 05 | 1030 | 1038 | 1225 | N05 | E70 | .938 | 13926 | 10.7 | 115 | -F | | C | 1038 | 20 | | E |
| GRP62941 | 05 | 1235 | 1243 1306 | 1313 | N05 | E69 | .932 | 13926 | 10.7 | 38 | -F | | | | | | E |
| HTPR | 05 | 1235 | 1243 | 1305 | N05 | E70 | .938 | 13926 | 10.8 | 30 | -F | | C | 1243 | 40 | | E |
| HTPR | 05 | 1257 | 1306 | 1313 | N05 | E69 | .932 | 13926 | 10.7 | 16 | -F | | C | 1306 | 20 | | |
| GRP62942 | 05 | 1345+1 | 1356+3 | 1410 | N04 | E68 | .926 | 13926 | 10.7 | 25 | -F | | | | 40 | | E |
| HTPR | 05 | 1345 | 1356 | 1410 | N05 | E69 | .932 | 13926 | 10.7 | 25 | -N | | C | 1356 | 40 | | E |
| HUAN | 05 | 1346 | 1359 | 1409 | N03 | E68 | .926 | 13926 | 10.7 | 23 | -F | 1 | C | 1359 | 35 | | |
| 943 HTPR | 05 | 1422 | 1438 | 1451 | N05 | E68 | .926 | 13926 | 10.7 | 29 | -F | | C | 1438 | 30 | | E |
| 944 MCMA | 05 | 1459E | | 1650 | N04 | E70 | .939 | 13926 | 10.9 | 112D | ? N | | C | 1459 | 100 | 3.0 | BEL |
| | IMP. 1 NO | | HTPR2 | BOUL2 | HUAN1 | | | | | | | | | | | | |
| 945 HUAN | 05 | 1655 | 1655 | 1657 | N03 | E68 | .926 | 13926 | 10.8 | 2 | -F | 1 | C | 1655 | 30 | | |
| GRP62946 | 05 | 1710+0 | 1712+0 | 1717 | N03 | E68 | .926 | 13926 | 10.8 | 7 | -F | | | | 20 | | D |
| PALE | 05 | 1710 | 1712 | 1721 | N03 | E66 | .913 | 13926 | 10.7 | 11 | -F | 2 | C | | 12 | | DE |
| MCMA | 05 | 1710 | 1712 | 1716 | N03 | E69 | .933 | 13926 | 10.9 | 6 | -N | | C | 1712 | 20 | .6 | D |
| HUAN | 05 | 1710 | 1712 | 1717 | N03 | E68 | .926 | 13926 | 10.8 | 7 | -F | 1 | C | 1712 | 20 | | D |
| GRP62947 | 05 | 1737+6 | 1744+0 | 1751 | N03 | E68 | .926 | 13926 | 10.8 | 14 | -N | | | | 30 | | DL |
| HUAN | 05 | 1737 | 1744 | 1751 | N03 | E68 | .926 | 13926 | 10.8 | 14 | -F | 1 | C | 1744 | 30 | | |
| PALE | 05 | 1743 | 1744 | 1819 | N04 | E66 | .912 | 13926 | 10.7 | 36 | -F | 3 | C | | 26 | | DE |
| MCMA | 05 | 1743 | 1744 | 1749 | N03 | E69 | .933 | 13926 | 10.9 | 6 | -B | | C | 1744 | 20 | .6 | DL |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONC | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62948 | 05 | 1835>9 | 1855+4 | 1919 | N04 | E67 | .919 | 13926 | 10.8 | 44 | 1N | | | | 100 | | EKL |
| PALE | 05 | 1835 | 1853 | 1922D | N04 | E65 | .905 | 13926 | 10.6 | 470 | -N | 2 | C | | 80 | | DE |
| BOUL | 05 | 1835 | 1859 | 2000 | N03 | E67 | .920 | 13926 | 10.8 | 85 | 1N | 1 | C | 1859 | 128 | 3.2 | |
| MCMA | 05 | 1844 | 1853 | 1913 | N05 | E68 | .926 | 13926 | 10.9 | 29 | 1N | | C | 1855 | 80 | 2.2 | EKL |
| HUAN | 05 | 1845 | | 1916 | N04 | E67 | .919 | 13926 | 10.8 | 31 | -N | 1 | C | | | | E |
| 949 HUAN | 05 | 2011 | | 2013 | N03 | E65 | .905 | 13926 | 10.7 | 2 | -F | 1 | C | | | | |
| GRP62950 | 05 | 2139+2 | 2144+1 | 2205 | N03 | E66 | .913 | 13926 | 10.9 | 26 | -N | | | | | | |
| BOUL | 05 | 2139 | 2145 | 2215 | N04 | E64 | .897 | 13926 | 10.7 | 36 | 1N | 1 | C | 2145 | 96 | 2.2 | |
| CULG | 05 | 2141 | 2144 | 2155 | N03 | E68 | .926 | 13926 | 11.0 | 14 | -F | | P | 2144 | 30 | .8 | |
| 951 VORO | 05 | 2340 | 2345 | 2354 | N03 | E65 | .905 | 13926 | 10.9 | 14 | -F | | C | 2345 | 72 | 1.6 | D |
| GRP62952 | 06 | 0115+1 | 0118+1 | 0138 | N02 | E64 | .898 | 13926 | 10.9 | 23 | 1N | | | | 110 | 2.5 | H |
| CULG | 06 | 0115 | 0118 | 0142 | N02 | E65 | .906 | 13926 | 10.9 | 27 | 1N | | C | 0118 | 90 | 2.1 | |
| VORO | 06 | 0116 | 0119 | 0133 | N03 | E64 | .898 | 13926 | 10.9 | 17 | 1N | | C | 0119 | 125 | 2.8 | H |
| 953 CULG | 06 | 0504 | 0507 | 0517 | N02 | E62 | .882 | 13926 | 10.9 | 13 | -F | | P | 0507 | 30 | .6 | |
| | 06 | 0517 | 0522 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62954 | 06 | 0625 | 0629 | 0644 | N01 | E60 | .866 | 13926 | 10.8 | 19 | 1N | | | | | | F |
| CULG | 06 | 0625 | 0629 | 0645 | N01 | E61 | .875 | 13926 | 10.8 | 20 | 1N | | C | 0629 | 100 | 2.1 | |
| MANI | 06 | 0638E | 0638U | 0643 | N02 | E60 | .865 | 13926 | 10.8 | 50 | -N | 3 | V | 0638 | 50 | .9 | F |
| GRP62955 | 06 | 0850+0 | 0857+0 | 0904 | N03 | E59 | .856 | 13926 | 10.8 | 14 | -F | | | | | | DJ |
| MONT | 06 | 0850 | 0857 | 0904 | N03 | E59 | .856 | 13926 | 10.8 | 14 | -F | | C | 0857 | 20 | | D |
| ABST | 06 | 0850 | 0857 | 0902D | N03 | E59 | .856 | 13926 | 10.8 | 120 | -N | | P | 0857 | 87 | 1.7 | DJ |
| GRP62956 | 06 | 0922+4 | 0922+4 | 0934 | N03 | E59 | .847 | 13926 | 10.7 | 12 | -N | | | | | | H |
| MONT | 06 | 0922E | 0922 | 0936 | N02 | E58 | .848 | 13926 | 10.7 | 140 | 1N | | C | 0922 | 250 | | H |
| ATHN | 06 | 0922E | 0924 | 0932 | N03 | E57 | .838 | 13926 | 10.7 | 100 | -N | 2 | C | | 48 | | DE |
| ATHN | 06 | 0922E | 0924 | 0932 | N03 | E57 | .838 | 13926 | 10.7 | 100 | -N | 2 | V | | 48 | | DE |
| TEHR | 06 | 0923E | 0925U | 0933 | N02 | E59 | .848 | 13926 | 10.7 | 100 | -B | 3 | V | | 40 | | DE |
| ARCE | 06 | 0926 | 0926 | 0945D | N04 | E59 | .856 | 13926 | 10.8 | 190 | 1B | | C | 0926 | 243 | 4.9 | T |
| GRP62957 | 06 | 1157+3 | 1207+3 | 1221 | N03 | E57 | .838 | 13926 | 10.8 | 24 | 1N | | | | 150 | 2.8 | H |
| RAMY | 06 | 1157 | 1207 | 1218 | N04 | E56 | .828 | 13926 | 10.7 | 21 | 1N | 4 | C | | 216 | | DE H |
| MONT | 06 | 1200 | 1210 | 1223 | N02 | E57 | .838 | 13926 | 10.8 | 23 | -N | | C | 1210 | 150 | | H |
| TEHR | 06 | 1206E | 1208U | 1215D | N03 | E57 | .838 | 13926 | 10.8 | 90 | -F | 3 | V | | 80 | | F H |
| GRP62958 | 06 | 1708+2 | 1712+2 | 1724 | N02 | E53 | .798 | 13926 | 10.7 | 16 | -F | | | | 50 | .8 | E |
| RAMY | 06 | 1708 | 1714 | 1725 | N03 | E52 | .787 | 13926 | 10.6 | 17 | -F | 4 | C | | 63 | | DE |
| MCMA | 06 | 1709 | 1712 | 1718 | N02 | E55 | .819 | 13926 | 10.8 | 9 | -F | | C | 1712 | 40 | .7 | E |
| HUAN | 06 | 1710 | | 1724 | N02 | E53 | .798 | 13926 | 10.7 | 14 | -N | 1 | C | | | | E |
| | 06 | 1925 | 1927 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 06 | 1949 | 2039 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 06 | 2048 | 2100 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 06 | 2153 | 2201 | NO FLARE PATROL | | | | | | | | | | | | | |
| 959 ABST | 07 | 0737 | 0740 | 0755 | N03 | E51 | .776 | 13926 | 11.1 | 18 | -F | | C | 0740 | 87 | 1.4 | CL |
| | 07 | 0931 | 0937 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 07 | 1252 | 1301 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 07 | 1303 | 1303 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62960 | 07 | 1508+7 | 1517+0 | 1527 | N03 | E45 | .706 | 13926 | 11.0 | 19 | -F | | | | 20 | .3 | D |
| HUAN | 07 | 1508 | 1517 | 1527 | N03 | E46 | .718 | 13926 | 11.1 | 19 | -F | 1 | C | 1517 | 15 | .2 | D |
| HTPR | 07 | 1515 | 1517 | 1526 | N03 | E44 | .694 | 13926 | 10.9 | 11 | -F | | C | 1517 | 20 | .3 | |
| 961 HUAN | 07 | 1742 | | 1746 | N04 | E45 | .706 | 13926 | 11.1 | 4 | -F | 1 | C | | | | |
| | 07 | 2210 | 2212 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 08 | 2036 | 2114 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 08 | 2159 | 2205 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 08 | 2320 | 2334 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0033 | 0033 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0113 | 0200 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0400 | 0425 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0515 | 0525 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0527 | 0554 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0610 | 0618 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 0646 | 0705 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 09 | 2237 | 2240 | NO FLARE PATROL | | | | | | | | | | | | | |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONF. | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62962 | 09 | 2317+1 | 2320+0 | 2327 | N05 | E08 | .141 | 13926 | 10.6 | 10 | -F | | | | 35 | .4 | E |
| VORO | 09 | 2317 | 2320 | 2327 | N05 | E08 | .141 | 13926 | 10.6 | 10 | -F | | C | 2320 | 54 | .6 | E |
| PALE | 09 | 2318 | 2320 | 2326D | N05 | E08 | .141 | 13926 | 10.6 | 8D | -F | 2 | C | | 18 | | DE |
| 963 VORO | 10 | 0100 | 0103 | 0112 | N05 | E08 | .141 | 13926 | 10.6 | 12 | -B | | C | 0103 | 72 | .7 | E |
| 964 VORO | 10 | 0232 | 0238 | 0248 | N05 | E08 | .141 | 13926 | 10.7 | 16 | -B | | C | 0238 | 90 | .9 | D |
| | 10 | 0500 | 0515 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 10 | 0554 | 0557 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62965 | 10 | 0721+5 | 0728+1 | 0736 | N02 | E04 | .074 | 13926 | 10.6 | 15 | -N | | | | 90 | .9 | HJU |
| ATHN | 10 | 0721 | 0729 | 0736 | N02 | E06 | .107 | 13926 | 10.8 | 15 | -N | 3 | V | | 80 | | U H |
| ATHN | 10 | 0721 | 0729 | 0736 | N02 | E06 | .107 | 13926 | 10.8 | 15 | -N | 3 | C | | 80 | | U H |
| MANI | 10 | 0723 | 0728 | 0732D | N03 | E04 | .070 | 13926 | 10.6 | 9D | -N | 3 | P | 0728 | 60 | .6 | FH |
| ABST | 10 | 0726 | 0728 | 0736 | N03 | E03 | .053 | 13926 | 10.5 | 10 | -N | | C | 0728 | 131 | 1.3 | EJ |
| CATA | 10 | 0735E | 0735 | 0810 | N02 | E03 | .058 | 13926 | 10.5 | 35D | -N | 3 | | 0735 | 84 | 1.0 | |
| GRP62966 | 10 | 0830 | 0842+3 | 0846 | N02 | E05 | .091 | 13926 | 10.7 | 16 | -F | | | | 30 | .3 | F |
| CATA | 10 | 0830 | 0845 | 0850 | N02 | E03 | .058 | 13926 | 10.6 | 20 | -N | 3 | | 0845 | 84 | 1.0 | |
| ATHN | 10 | 0842E | 0842U | 0846 | N02 | E06 | .107 | 13926 | 10.8 | 4D | -F | 3 | C | | 32 | | F |
| ATHN | 10 | 0842E | 0842U | 0846 | N02 | E06 | .107 | 13926 | 10.8 | 4D | -F | 3 | V | | 32 | | F |
| GRP62967 | 10 | 1129+0 | 1132+1 | 1141 | N03 | 00 | .008 | 13926 | 10.5 | 12 | -N | | | | | | U |
| RAMY | 10 | 1129 | 1133 | 1141 | N02 | E00 | .025 | 13926 | 10.5 | 12 | -N | 4 | C | | 180 | | UDE |
| HTPR | 10 | 1129 | 1132 | 1140 | N04 | E01 | .020 | 13926 | 10.6 | 11 | -B | | C | 1132 | 20 | .2 | |
| LVOV | 10 | 1137E | 1141 | 1156 | N03 | E00 | .008 | 13926 | 10.5 | 19D | -N | | C | 1141 | 150 | 1.6 | B |
| GRP62968 | 10 | 1428+1 | 1433+2 | 1451 | N04 | 00 | .010 | 13926 | 10.6 | 23 | -F | | | | | | F |
| RAMY | 10 | 1428 | 1433 | 1447 | N04 | W01 | .020 | 13926 | 10.5 | 19 | -N | 4 | C | | 36 | | F |
| BOUL | 10 | 1429 | 1435 | 1455 | N04 | E00 | .010 | 13926 | 10.6 | 26 | -F | 1 | C | 1435 | 107 | 1.1 | |
| | 10 | 2120 | 2242 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62969 | 11 | 0109+3 | 0113+3 | 0125 | N04 | W05 | .038 | 13926 | 10.7 | 16 | -F | | | | 60 | .6 | |
| VORO | 11 | 0109 | 0114 | 0125 | N04 | W06 | .105 | 13926 | 10.6 | 16 | -F | | C | 0114 | 81 | .8 | D |
| MANI | 11 | 0111 | 0116 | 0124 | N03 | W06 | .105 | 13926 | 10.6 | 13 | -N | 3 | P | 0116 | 90 | .9 | F |
| PALE | 11 | 0112 | 0113 | 0115D | N04 | W04 | .071 | 13926 | 10.8 | 3D | -F | 3 | C | | 38 | | DE |
| PALE | 11 | 0112 | 0113 | 0115D | N04 | W04 | .071 | 13926 | 10.8 | 3D | -F | 3 | V | | 38 | | DE |
| 970 CATA | 11 | 0900E | 0900 | 0910 | N02 | W10 | .175 | 13926 | 10.6 | 10D | -F | 3 | | 0900 | 56 | .6 | |
| | 11 | 2232 | 2244 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 11 | 2251 | 2252 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 0124 | 0131 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 0310 | 0320 | NO FLARE PATROL | | | | | | | | | | | | | |
| 971 BOUL | 12 | 2024 | 2025 | 2032 | N02 | W26 | .438 | 13926 | 10.9 | 8 | -F | 2 | C | 2025 | 21 | .2 | |
| GRP62972 | 12 | 2035 | 2039 | 2052 | S13 | E10 | .326 | 13936 | 13.6 | 17 | -F | | | | | | F |
| BOUL | 12 | 2035 | 2039 | 2052 | S12 | E09 | .303 | 13936 | 13.5 | 17 | -F | 2 | C | 2039 | 42 | .4 | |
| RAMY | 12 | 2038E | | 2038D | S15 | E11 | .362 | 13936 | 13.7 | | -F | 2 | V | | 143 | | F |
| 973 BOUL | 12 | 2144 | 2146 | 2156 | N02 | W28 | .469 | 13926 | 10.8 | 12 | -F | 2 | C | 2146 | 21 | .2 | |
| | 13 | 0649 | 0654 | NO FLARE PATROL | | | | | | | | | | | | | |
| 974 CULG | 14 | 0334 | 0335 | 0338 | N02 | W47 | .731 | 13926 | 10.6 | 4 | -F | | C | 0335 | 15 | .2 | |
| GRP62975 | 14 | 0409 | 0412 | 0423 | S08 | E77 | .977 | 13937 | 13.9 | 14 | 1N | | | | 70 | | |
| CULG | 14 | 0409 | 0412 | 0418 | S10 | E80 | .987 | 13937 | 20.2 | 9 | 1N | | P | 0412 | 60 | 2.4 | |
| MANI | 14 | 0416E | 0416U | 0427 | S07 | E75 | .968 | 13937 | 19.8 | 11D | -N | 2 | V | 0416 | 80 | 2.0 | |
| GRP62976 | 14 | 0646 | 0652+2 | 0706 | N07 | E17 | .299 | 13934 | 15.6 | 20 | -F | | | | | | E |
| ABST | 14 | 0646 | 0652 | 0706 | N07 | E18 | .315 | 13934 | 15.6 | 20 | -F | | C | 0652 | 70 | .8 | D |
| ABST | 14 | 0650 | 0654 | 0702 | N07 | E16 | .283 | 13934 | 15.5 | 12 | -F | | C | 0654 | 87 | 1.0 | E |
| 977 ARCE | 14 | 0807E | | 0835D | N06 | E26 | .440 | 13934 | 16.3 | 28D | -N | | C | 0819 | 45 | .5 | |
| GRP62978 | 14 | 0952 | 0959<br>1005 | 1006 | S06 | E71 | .948 | 13937 | 19.7 | 14 | -F | | | | | | K |
| HTPR | 14 | 0952 | 0959 | 1004 | S04 | E72 | .953 | 13937 | 19.8 | 12 | -F | | C | 0959 | 10 | | K |
| HTPR | 14 | 1002 | 1005 | 1006 | S08 | E70 | .944 | 13937 | 19.7 | 4 | -F | | C | 1005 | 10 | .2 | |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONC | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62979 | 14 | 1141+4 | 1150+4 | 1159 | N06 | E23 | .393 | 13934 | 16.2 | 18 | -F | | | | 70 | .8 | F |
| RAMY | 14 | 1141 | 1151 | 1159 | N06 | E23 | .393 | 13934 | 16.2 | 18 | -F | 4 | C | | 63 | | F |
| HTPR | 14 | 1145 | 1150 | 1158 | N05 | E23 | .391 | 13934 | 16.2 | 13 | -N | | C | 1150 | 80 | .9 | E |
| RAMY | 14 | 1148E | 1154 | 1159 | N07 | E24 | .411 | 13934 | 16.3 | 11D | -F | 4 | V | | 64 | | F |
| 980 HTPR | 14 | 1241 | 1243 | 1245 | S08 | E69 | .938 | 13937 | 19.7 | 4 | .-F | | C | 1243 | 10 | .2 | |
| GRP62981 | 14 | 1256+0 | 1257+0 | 1259 | S06 | E78 | .980 | 13937 | 20.4 | 3 | -F | | | | 25 | | D |
| MONT | 14 | 1256 | 1257 | 1259 | S07 | E86 | .998 | 13937 | 21.0 | 3 | -F | | C | 1257 | 20 | | D |
| HTPR | 14 | 1256 | 1257 | 1259 | S06 | E71 | .948 | 13937 | 19.9 | 3 | -F | | C | 1257 | 30 | .5 | |
| GRP62982 | 14 | 1303+1 | 1305+1 | 1311 | N05 | E21 | .359 | 13934 | 16.1 | 8 | -F | | | | 50 | .5 | E |
| MONT | 14 | 1303 | 1305 | 1312 | N06 | E21 | .361 | 13934 | 16.1 | 9 | -F | | C | 1305 | 60 | | E |
| HTPR | 14 | 1304 | 1306 | 1309 | N05 | E21 | .359 | 13934 | 16.1 | 5 | -N | | C | 1306 | 50 | .6 | |
| 983 HTPR | 14 | 1334 | 1335 | 1339 | S08 | E68 | .932 | 13937 | 19.7 | 5 | -F | | C | 1335 | 10 | .2 | |
| 984 HTPR | 14 | 1413 | 1443 | 1455 | S08 | E67 | .925 | 13937 | 19.6 | 42 | -F | | C | 1443 | 40 | .6 | |
| | 15 | 0341 | 0348 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 15 | 0400 | 0409 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 15 | 0510 | 0526 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 15 | 0741 | 0745 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62985 | 15 | 0942+3 | 0945+4 | 0954 | N04 | W63 | .890 | 13926 | 10.7 | 12 | -F | | | | 80 | 1.8 | EG |
| HTPR | 15 | 0942 | 0947 | 0950 | N05 | W63 | .890 | 13926 | 10.7 | 8 | -F | | C | 0947 | 70 | 1.4 | E |
| MONT | 15 | 0943 | 0949 | 0954 | N05 | W63 | .890 | 13926 | 10.7 | 11 | -F | | C | 0949 | 60 | | EG |
| CATA | 15 | 0945 | 0945 | 1000 | N03 | W63 | .890 | 13926 | 10.7 | 15 | 1F | 1 | | 0945 | 112 | 2.5 | |
| GRP62986 | 15 | 0954 | 0959 | 1011 | N10 | W57 | .839 | 13926 | 11.1 | 17 | -F | | | | 40 | .7 | G |
| MONT | 15 | 0954 | 0959 | 1011 | N09 | W56 | .829 | 13926 | 11.2 | 17 | -F | | C | 0959 | 40 | | G |
| ARCE | 15 | 1005E | | 1005D | N11 | W59 | .857 | 13926 | 11.0 | | -F | | F | 1005 | 37 | .7 | |
| 987 HTPR | 15 | 1121 | 1123 | 1125 | S08 | E60 | .873 | 13937 | 20.0 | 4 | -F | | C | 1123 | 10 | .2 | |
| GRP62988 | 15 | 1140+5 | 1145+4 | 1225 | S08 | E59 | .865 | 13937 | 19.9 | 45 | 1N | | | | 230 | 4.5 | I |
| LVOV | 15 | 1140 | 1147 | 1234 | S10 | E60 | .876 | 13937 | 20.0 | 54 | 2N | | C | 1147 | 300 | 6.7 | I |
| HTPR | 15 | 1141 | 1145 | 1210 | S08 | E58 | .856 | 13937 | 19.8 | 29 | 1B | | C | 1145 | 200 | 3.5 | EF |
| RAMY | 15 | 1143E | 1145U | 1219D | S06 | E58 | .853 | 13937 | 19.8 | 36D | -N | 4 | C | | 189 | | FDE |
| CATA | 15 | 1145 | 1145 | 1230D | S07 | E57 | .846 | 13937 | 19.8 | 45D | 2B | 1 | | 1145 | 505 | 10.0 | |
| RAMY | 15 | 1146E | 1149 | 1201D | S08 | E61 | .881 | 13937 | 20.1 | 15D | -N | 4 | V | | 175 | | F |
| 989 HTPR | 15 | 1357 | 1359 | 1402 | S08 | E60 | .873 | 13937 | 20.1 | 5 | -F | | C | 1359 | 10 | .2 | |
| 990 HTPR | 15 | 1421 | 1421 | 1424 | S08 | E59 | .865 | 13937 | 20.0 | 3 | -F | | C | 1421 | 10 | .2 | |
| 991 MCMA | 15 | 1654 | | 1720D | S09 | E56 | .839 | 13937 | 19.9 | 260 | -F | | C | 1706 | 70 | 1.3 | E |
| 992 MCMA | 15 | 1842 | 1843 | 1846 | S09 | E57 | .848 | 13937 | 20.1 | 4 | -F | | C | 1843 | 30 | .5 | D |
| GRP62993 | 15 | 1847+1 | 1908+0 1915 | 2002 | S06 | E60 | .871 | 13937 | 20.3 | 75 | -N | | | | 100 | 2.0 | KS |
| MCMA | 15 | 1847 | | 1942D | S07 | E61 | .880 | 13937 | 20.4 | 55D | 1B | | C | 1912 | 90 | 2.0 | EK |
| RAMY | 15 | 1847 | 1908 | 2022 | S05 | E61 | .878 | 13937 | 20.4 | 95 | -N | 4 | C | | 135 | | F S |
| PALE | 15 | 1848 | 1938U | 2022D | S08 | E60 | .873 | 13937 | 20.3 | 94D | -F | 3 | C | | 36 | | DE |
| RAMY | 15 | 1905E | 1909 | 1925D | S07 | E57 | .846 | 13937 | 20.1 | 20D | -N | 4 | V | | 128 | | F S |
| BOUL | 15 | 1907E | 1915 | 1940 | S05 | E61 | .878 | 13937 | 20.4 | 33D | -N | 2 | C | 1915 | 96 | 2.0 | |
| 994 BOUL | 15 | 2137 | 2142 | 2157 | S10 | E53 | .812 | 13937 | 19.9 | 20 | -F | 2 | C | 2142 | 21 | .4 | |
| | 15 | 2232 | 2300 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62995 | 15 | 2307+2 | 2310+6 | 2324 | S08 | E53 | .809 | 13937 | 19.9 | 17 | -N | | | | | | K |
| VORC | 15 | 2307 | 2310 | 2331 | S07 | E54 | .817 | 13937 | 20.0 | 24 | 1N | | C | 2310 | 242 | 4.0 | FK |
| CULG | 15 | 2308 | 2316 | 2324 | S09 | E53 | .810 | 13937 | 19.9 | 16 | -F | | C | 2316 | 40 | .7 | |
| MANI | 15 | 2309 | 2311 | 2321 | S07 | E52 | .797 | 13937 | 19.9 | 12 | -N | 3 | V | 2311 | 80 | 1.3 | D |
| 996 PALE | 16 | 0044 | 0050 | 0112 | S08 | E50 | .777 | 13937 | 19.8 | 28 | -F | 3 | C | | 26 | | |
| GRP62997 | 16 | 0129 | 0132 | 0153 | S07 | E51 | .786 | 13937 | 19.9 | 24 | -F | | | | | | |
| PALE | 16 | 0129 | 0132 | 0153 | S08 | E51 | .788 | 13937 | 19.9 | 24 | -F | 3 | C | | 26 | | DE |
| MANI | 16 | 0145E | 0145U | 0153 | S07 | E51 | .786 | 13937 | 19.9 | 8D | -F | 3 | V | 0145 | 30 | .5 | |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. | APPROX LON. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONC | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62998 | 16 | 0202+7 | 0203+5 | 0228 | S07 | E51 | .786 | 13937 | 19.9 | 26 | -N | | | | 110 | 1.8 | DLU |
| MITK | 16 | 0202 | 0210 | 0222D | S07 | E51 | .786 | 13937 | 19.9 | 20D | -N | | C | 0210 | 110 | 1.8 | |
| VORO | 16 | 0206 | 0209 | 0226 | S07 | E51 | .786 | 13937 | 19.9 | 22 | 1N | | C | 0209 | 152 | 2.5 | L |
| PALE | 16 | 0208E | 0210 | 0229 | S08 | E50 | .777 | 13937 | 19.8 | 21D | -N | 3 | C | | 110 | | U |
| MANI | 16 | 0209 | 0214 | 0226 | S07 | E51 | .786 | 13937 | 19.9 | 17 | -N | 3 | V | 0214 | 70 | 1.2 | C |
| 999 PALE | 16 | 0239 | 0244 | 0253 | S08 | E50 | .777 | 13937 | 19.9 | 14 | -F | 3 | C | | 76 | | DE |
| | 16 | 0313 | 0331 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 16 | 0334 | 0340 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 16 | 0414 | 0415 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63000 | 16 | 0537+3 | 0547+9 | 0621 | S07 | E47 | .742 | 13937 | 19.9 | 44 | 1B | | | | 150 | 2.2 | EHLSZ |
| MITK | 16 | 0537 | 0547 | 0621D | S07 | E47 | .742 | 13937 | 19.8 | 44D | -B | | C | 0547 | 80 | 1.2 | EH |
| TACH | 16 | 0540 | 0547 | 0631 | S07 | E47 | .742 | 13937 | 19.8 | 51 | 1B | | C | 0556 | 177 | 2.7 | EL |
| MANI | 16 | 0541E | 0551 | 0617 | S07 | E49 | .765 | 13937 | 19.9 | 36D | -B | 3 | V | 0551 | 120 | 1.9 | ZS |
| ABST | 16 | 0555E | 0556 | 0556D | S07 | E47 | .742 | 13937 | 19.8 | 1D | 1N | | P | 0556 | 192 | 2.9 | E |
| | 16 | 0800 | 0810 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63001 | 16 | 1111+1 | 1117+2 | 1121D | S09 | E45 | .724 | 13937 | 19.8 | 10 | -N | | | | 50 | .7 | HK |
| LVOV | 16 | 1111 | 1119 | 1325 | S09 | E47 | .747 | 13937 | 20.0 | 134 | 1B | | C | 1120 | 200 | 3.2 | EFK |
| RAMY | 16 | 1112 | 1117 | 1121 | S08 | E45 | .721 | 13937 | 19.8 | 9 | -N | 4 | C | | 48 | | DE H |
| RAMY | 16 | 1115E | 1117 | 1121D | S09 | E44 | .712 | 13937 | 19.8 | 6D | -N | 4 | V | | 42 | | DE H |
| GRP63002 | 16 | 1450+0 | 1454 | 1520D | S07 | E43 | .695 | 13937 | 19.8 | 30 | -N | | | | | | EL |
| MCMA | 16 | 1450 | 1454 | 1520 | S08 | E43 | .697 | 13937 | 19.8 | 30 | -B | | C | 1454 | 70 | 1.0 | EL |
| BOUL | 16 | 1450 | 1525 | 1630 | S07 | E44 | .707 | 13937 | 19.9 | 100 | -F | 2 | C | 1525 | 74 | 1.0 | |
| GRP63003 | 16 | 1740+4 | 1744+1 | 1755 | S04 | E44 | .701 | 13937 | 20.0 | 15 | -F | | | | 50 | .7 | E |
| BOUL | 16 | 1740 | 1744 | 1800 | S04 | E43 | .688 | 13937 | 20.0 | 20 | -F | 2 | C | 1744 | 64 | .9 | |
| MCMA | 16 | 1744 | 1745 | 1749 | S05 | E45 | .715 | 13937 | 20.1 | 5 | -F | | C | 1745 | 40 | .6 | E |
| GRP63004 | 16 | 2037+1 | 2016+6 | 2027 | S08 | E41 | .673 | 13937 | 19.9 | 20 | -F | | | | 100 | 1.3 | |
| RAMY | 16 | 2007 | 2017 | 2024 | S08 | E42 | .685 | 13937 | 20.0 | 17 | -F | 3 | C | | 135 | | DE |
| BOUL | 16 | 2008 | 2016 | 2059 | S09 | E41 | .676 | 13937 | 19.9 | 47 | -N | 1 | C | 2016 | 107 | 1.4 | |
| PALE | 16 | 2014E | 2016U | 2018D | S08 | E40 | .660 | 13937 | 19.8 | 4D | -F | 2 | C | | 80 | | DE |
| RAMY | 16 | 2020E | 2022U | 2027D | S07 | E43 | .695 | 13937 | 20.1 | 7D | -F | 3 | V | | 70 | | DE |
| 5 BOUL | 16 | 2138 | 2145 | 2226 | N05 | W76 | .970 | 13926 | 11.2 | 48 | -F | 2 | C | 2145 | 53 | 1.7 | |
| 6 PALE | 17 | 0014E | 0014U | 0020D | S08 | E37 | .621 | 13937 | 19.8 | 6D | -F | 2 | C | | 41 | | DE |
| | 17 | 0154 | 0202 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 17 | 0210 | 0300 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 17 | 0308 | 0337 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 17 | 0346 | 0352 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 17 | 0354 | 0405 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63007 | 17 | 1145E | 1152+3 | 1240 | S07 | E30 | .522 | 13937 | 19.7 | 55 | -N | | | | 110 | 1.3 | FZ |
| RAMY | 17 | 1145E | 1155 | 1245D | S07 | E30 | .522 | 13937 | 19.7 | 60D | -N | 4 | V | | 128 | | Z F |
| ATHN | 17 | 1149E | 1154 | 1240 | S08 | E31 | .540 | 13937 | 19.8 | 51D | -N | 4 | C | | 128 | | Z F |
| ATHN | 17 | 1149E | 1154 | 1240 | S08 | E31 | .540 | 13937 | 19.8 | 51D | -N | 4 | V | | 128 | | Z F |
| TEHR | 17 | 1153E | 1152U | 1210D | S08 | E32 | .554 | 13937 | 19.9 | 20D | -N | 2 | V | | 58 | | F |
| CATA | 17 | 1210E | 1210 | 1215D | S05 | E28 | .485 | 13937 | 19.6 | 3D | -N | 1 | | 1210 | 112 | 1.3 | |
| 8 MCMA | 17 | 1310E | | 1335 | S07 | E29 | .508 | 13937 | 19.7 | 25D | -F | | C | 1319 | 50 | .6 | EH |
| 9 MCMA | 17 | 1352 | 1401 | 1430D | S07 | E27 | .479 | 13937 | 19.6 | 38D | -F | | C | 1401 | 60 | .7 | EH |
| 10 MCMA | 17 | 1434 | | 1510 | S07 | E27 | .479 | 13937 | 19.6 | 36 | -F | | C | 1445 | 50 | .6 | EH |
| GRP63011 | 17 | 1645+0 | 1649 | 1657 | S07 | E33 | .564 | 13937 | 20.2 | 12 | -N | | | | 35 | .4 | DL |
| MCMA | 17 | 1645 | 1649 | 1657 | S07 | E33 | .564 | 13937 | 20.2 | 12 | -N | | C | 1648 | 35 | .4 | DL |
| HUAN | 17 | 1645 | | 1656 | S07 | E33 | .564 | 13937 | 20.2 | 11 | -N | 1 | C | 1649 | 30 | .4 | |
| 12 MCMA | 17 | 1659 | 1700 | 1701 | S07 | E33 | .564 | 13937 | 20.2 | 2 | -N | | C | 1700 | 35 | .4 | DL |
| 13 MCMA | 17 | 1823 | 1828 | 1842 | S09 | E28 | .504 | 13937 | 19.9 | 19 | -N | | C | 1828 | 50 | .6 | E |
| 14 MCMA | 17 | 1945 | | 1949D | S09 | E26 | .476 | 13937 | 19.8 | 4D | -N | | P | 1946 | 40 | .5 | E |
| | 17 | 1949 | 1951 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 0128 | 0135 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 0155 | 0236 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 0240 | 0246 | NO FLARE PATROL | | | | | | | | | | | | | |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONG | TYPE | TIME UT | MEAS. AREA Millionths of Disk | CORR AREA Sq. Deg. | |
| 15 MANI | 18 | 0752E | 0754U | 0757D | S08 | E19 | .369 | 13937 | 19.8 | 5D | -N | 3 | V | 0754 | 50 | .6 | F |
| 16 TEHR | 18 | 0754E | 0759 | 0805 | S06 | E37 | .615 | | 21.1 | 11D | -F | 3 | V | | 48 | | F |
| 17 HTPR | 18 | 0838E | | 0843D | S08 | E19 | .369 | 13937 | 19.8 | 5D | -N | | C | 0840 | 100 | 1.0 | E |
| 18 HTPR | 18 | 0851E | | 0903 | S08 | E19 | .369 | 13937 | 19.8 | 12D | -N | | C | 0851 | 100 | 1.0 | E |
| 19 HTPR | 18 | 0956 | 1000 | 1009 | N05 | W31 | .515 | 13934 | 16.1 | 13 | -F | | C | 1000 | 10 | .1 | |
| 20 HTPR | 18 | 1020 | 1026 | 103F | S08 | E18 | .355 | 13937 | 19.8 | 15 | -F | | C | 1026 | 20 | .2 | E |
| 21 HTPR | 18 | 1035 | 1045 | 1055 | S06 | E17 | .325 | 13937 | 19.7 | 20 | -F | | C | 1045 | 20 | .2 | |
| GRP63022 | 18 | 1037+0 | 1041+6 | 1101 | N07 | W31 | .518 | 13934 | 16.1 | 24 | -N | | | | 45 | .5 | EHU |
| HTPR | 18 | 1037 | 1047 | 1104 | N07 | W33 | .547 | 13934 | 16.0 | 27 | -N | | C | 1047 | 30 | .3 | E |
| ATHN | 18 | 1037 | 1041 | 1058 | N07 | W30 | .503 | 13934 | 16.2 | 21 | -N | 4 | V | | 64 | | U H |
| | 18 | 1227 | 1318 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1321 | 1334 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63023 | 18 | 1323E | 1325 1333+2 | 1520D | S07 | E16 | .319 | 13937 | 19.8 | 117 | -N | | | | | | E |
| RAMY | 18 | 1323E | 1333 | 1352D | S08 | E17 | .341 | 13937 | 19.8 | 29D | -N | 4 | V | | 32 | | FDE |
| RAMY | 18 | 1323E | 1325 | 1352D | S08 | E17 | .341 | 13937 | 19.8 | 29D | -F | 4 | V | | 32 | | FDE |
| MCMA | 18 | 1334E | 1335 | 1520D | S07 | E16 | .319 | 13937 | 19.8 | 106D | -B | | P | 1335 | 110 | 1.2 | E |
| | 18 | 1339 | 1350 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1357 | 1409 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1445 | 1452 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1453 | 1503 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1526 | 1613 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 1622 | 1705 | NO FLARE PATROL | | | | | | | | | | | | | |
| 24 MCMA | 18 | 1730E | | 1905D | S08 | E16 | .327 | 13937 | 19.9 | 95D | -F | | P | 1805 | 100 | 1.1 | F |
| | 18 | 1740 | 1744 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63025 | 18 | 1905+3 | 1926+4 | 2021D | S07 | E19 | .362 | 13937 | 20.2 | 76 | -N | | | | 130 | 1.4 | E |
| MCMA | 18 | 1905 | 1930 | 1949D | S06 | E20 | .370 | 13937 | 20.3 | 44D | -B | | C | 1930 | 120 | 1.4 | E |
| PALE | 18 | 1908 | 1926 | 2021D | S08 | E18 | .355 | 13937 | 20.1 | 73D | -N | 3 | C | | 140 | | DE |
| | 18 | 2022 | 2049 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 2156 | 2203 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 2208 | 2229 | NO FLARE PATROL | | | | | | | | | | | | | |
| 26 VORO | 19 | 0248 | 0249 | 0254 | S08 | E10 | .249 | 13937 | 19.9 | 6 | -B | | C | 0249 | 90 | .9 | E |
| 27 MANI | 19 | 0328 | 0332 | 0350 | S09 | E09 | .250 | 13937 | 19.8 | 22 | -N | 3 | P | 0332 | 110 | 1.2 | F |
| | 19 | 0412 | 0421 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0443 | 0451 | NO FLARE PATROL | | | | | | | | | | | | | |
| 28 MANI | 19 | 0451E | 0451U | 0503D | N04 | W45 | .707 | 13934 | 15.8 | 12D | -F | 3 | P | 0451 | 30 | .4 | |
| | 19 | 0457 | 0503 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0620 | 0631 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0638 | 0651 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0657 | 0724 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63029 | 19 | 0724E | 0724 | 0741D | S09 | E09 | .240 | 13937 | 19.9 | 17 | -N | | | | 160 | 1.7 | FU |
| ATHN | 19 | 0724E | 0724U | 0741D | S09 | E08 | .240 | 13937 | 19.9 | 17D | -N | 1 | V | | 160 | | U F |
| ATHN | 19 | 0724E | 0724U | 0741D | S09 | E08 | .240 | 13937 | 19.9 | 17D | -N | 1 | C | | 160 | | U F |
| MANI | 19 | 0732E | 0732U | 0734D | S08 | E07 | .217 | 13937 | 19.8 | 2D | -N | 3 | V | 0732 | 130 | 1.4 | F |
| | 19 | 0725 | 0731 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0741 | 0748 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 0751 | 0809 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63030 | 19 | 0830>9 | 0847 | 0858 | S08 | E07 | .217 | 13937 | 19.9 | 28 | -B | | | | | | |
| ARCE | 19 | 0830E | | 0851 | S07 | E06 | .193 | 13937 | 19.8 | 21D | -N | | C | 0833 | 113 | 1.2 | TB |
| HTPR | 19 | 0846 | 0847 | 0858 | S08 | E09 | .237 | 13937 | 20.0 | 12 | -B | | C | 0847 | 100 | 1.0 | |
| ARCE | 19 | 0848E | | 0852D | S09 | E07 | .231 | 13937 | 19.9 | 4D | -B | | C | 0851 | 37 | .4 | D |
| 31 HTPR | 19 | 1131 | 1134 | 1135 | N06 | W49 | .755 | 13934 | 15.8 | 4 | -F | | C | 1134 | 10 | .1 | |
| 32 HTPR | 19 | 1155 | 1156 | 1210 | S06 | E06 | .179 | 13937 | 19.9 | 15 | -N | | C | 1156 | 10 | .1 | |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX. LAT. | APPROX. LNG. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONG | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR. AREA Sq. Deg. | |
| 33 HTPR | 19 | 1230 | 1232 | 1237 | S07 | E04 | .177 | 13937 | 19.8 | 7 | -F | | C | 1232 | 20 | .2 | |
| 34 HTPR | 19 | 1340 | 1340 | 1345 | S06 | E05 | .170 | 13937 | 19.9 | 5 | -F | | C | 1340 | 20 | .2 | E |
| GRP63035 | 19 | 1342+2 | 1349+0 | 1357 | N05 | W48 | .743 | 13934 | 16.0 | 15 | -F | | | | 30 | .4 | DH |
| HTPR | 19 | 1342 | 1349 | 1357 | N06 | W49 | .755 | 13934 | 15.9 | 15 | -N | | C | 1349 | 30 | .4 | |
| MCMA | 19 | 1344 | 1349 | 1356 | N05 | W48 | .743 | 13934 | 16.0 | 12 | -F | | C | 1349 | 25 | .4 | DH |
| GRP63036 | 19 | 1429+3 | 1434+1 | 1450 | S08 | E04 | .193 | 13937 | 19.9 | 21 | -N | | | | 80 | .8 | E |
| MCMA | 19 | 1429 | 1434 | 1451 | S09 | E04 | .209 | 13937 | 19.9 | 22 | -B | | C | 1434 | 50 | .5 | E |
| LOCA | 19 | 1432 | 1435 | 1448 | S07 | E04 | .177 | 13937 | 19.9 | 16 | -N | | V | 1435 | 122 | 1.3 | |
| HTPR | 19 | 1437E | | 1450D | S07 | E04 | .177 | 13937 | 19.9 | 13D | -B | | C | 1438 | 80 | .8 | E |
| CATA | 19 | 1445E | 1445 | 1450D | S08 | E03 | .188 | 13937 | 19.8 | 5D | -N | 1 | | 1445 | 56 | .6 | |
| 37 MCMA | 19 | 1645 | 1650 | 1715 | S09 | E03 | .204 | 13937 | 19.9 | 30 | -F | | C | 1650 | 40 | .4 | E |
| 38 MCMA | 19 | 1851 | 1854 | 1915 | S09 | E01 | .198 | 13937 | 19.9 | 24 | -N | | C | 1854 | 60 | .6 | E |
| 39 MCMA | 19 | 1932E | | 1942D | S07 | E00 | .163 | 13937 | 19.8 | 10D | -B | | C | 1932 | 20 | .2 | D |
| | 19 | 2016 | 2041 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 19 | 2151 | 2211 | NO FLARE PATROL | | | | | | | | | | | | | |
| 40 MANI | 20 | 0828 | 0831 | 0834 | S08 | W03 | .186 | 13937 | 20.1 | 6 | -F | 3 | P | 0831 | 30 | .3 | |
| 41 HTPR | 20 | 1141 | 1142 | 1144D | S08 | W09 | .236 | 13937 | 19.9 | 3D | -F | | C | 1142 | 20 | .2 | E |
| 42 CATA | 20 | 1450 | 1450 | 1505D | S09 | W04 | .207 | 13937 | 20.3 | 15D | -N | 1 | | 1450 | 28 | .3 | |
| | 20 | 1524 | 1539 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 20 | 2231 | 2258 | NO FLARE PATROL | | | | | | | | | | | | | |
| 43 CULG | 20 | 2324 | 2326 | 2330 | S08 | W12 | .272 | 13937 | 20.1 | 6 | -F | | C | 2326 | 60 | .6 | L |
| | 21 | 0228 | 0300 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 21 | 0320 | 0405 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 21 | 0531 | 0534 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63044 | 21 | 0605+5 | 0616+6 0632+2 | 0723 | S07 | W21 | .389 | 13937 | 19.7 | 78 | 1B | | | | 310 | 3.4 | JUZ |
| ABST | 21 | 0605 | 0616 | 0840 | S06 | W23 | .413 | 13937 | 19.5 | 155 | 1B | | P | 0616 | 262 | 2.9 | FJ |
| ABST | 21 | 0607 | 0619 | 0720 | S07 | W17 | .330 | 13937 | 20.0 | 73 | -N | | P | 0618 | 114 | 1.2 | FJZ |
| ATHN | 21 | 0610 | 0617 | 0720 | S07 | W20 | .374 | 13937 | 19.8 | 70 | 1B | 3 | C | | 304 | | UDE |
| ATHN | 21 | 0610 | 0617 | 0720 | S07 | W20 | .374 | 13937 | 19.8 | 70 | 1B | 3 | V | | 304 | | UDE |
| TEHR | 21 | 0610E | 0621 | 0704 | S08 | W21 | .395 | 13937 | 19.7 | 54D | 1B | 4 | V | | 388 | | DE |
| TEHR | 21 | 0610E | 0621 | 0704 | S08 | W21 | .395 | 13937 | 19.7 | 54D | 1B | 4 | C | | 388 | | DE |
| ATHN | 21 | 0610 | 0634 | 0720 | S07 | W20 | .374 | 13937 | 19.8 | 70 | 1B | 3 | C | | 368 | | UDE |
| ATHN | 21 | 0610 | 0634 | 0720 | S07 | W20 | .374 | 13937 | 19.8 | 70 | 1B | 3 | V | | 368 | | UDE |
| CULG | 21 | 0621E | 0622U | 0746D | S08 | W22 | .410 | 13937 | 19.6 | 85D | 1N | | P | 0622 | 240 | 2.4 | F |
| MANI | 21 | 0629E | 0632 | 0701D | S05 | W22 | .393 | 13937 | 19.6 | 32D | 1B | 3 | P | 0632 | 90 | 1.0 | DZ |
| GRP63045 | 21 | 0807E | | 0825D | S06 | W25 | .442 | 13937 | 19.5 | 18 | -N | | | | | | |
| ARCE | 21 | 0807E | | 0822D | S05 | W26 | .453 | 13937 | 19.4 | 15D | -N | | C | 0807 | 34 | .4 | |
| CATA | 21 | 0810E | 0810 | 0825D | S07 | W25 | .447 | 13937 | 19.5 | 15D | -N | 1 | | 0810 | 84 | 1.0 | |
| GRP63046 | 21 | 0850E | 0850 | 0940 | S06 | W25 | .442 | 13937 | 19.5 | 50 | -N | | | | | | D |
| CATA | 21 | 0850E | 0850 | 0940 | S07 | W25 | .447 | 13937 | 19.5 | 50D | -N | 1 | | 0850 | 56 | .6 | |
| ARCE | 21 | 0930E | | 0930D | S06 | W26 | .457 | 13937 | 19.4 | | -N | | P | 0930 | 24 | .3 | D |
| 47 HTPR | 21 | 1248 | 1248 | 1253 | S08 | W24 | .438 | 13937 | 19.7 | 5 | -F | | C | 1248 | 10 | .1 | D |
| 48 HTPR | 21 | 1255 | 1302 | 1320 | S04 | W19 | .341 | 13937 | 20.1 | 25 | -F | | C | 1302 | 20 | .2 | |
| | 21 | 2213 | 2220 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP63049 | 22 | 0943+4 | 0946+2 | 0957 | S07 | W29 | .505 | 13937 | 20.2 | 14 | -F | | | | 30 | .3 | |
| MONT | 22 | 0943 | 0946 | 0952 | S06 | W29 | .501 | 13937 | 20.2 | 9 | -F | | C | 0946 | 40 | | E |
| HTPR | 22 | 0947 | 0948 | 0957 | S07 | W30 | .519 | 13937 | 20.2 | 10 | -F | | C | 0948 | 20 | .2 | D |
| ARCE | 22 | 0947 | | 1005D | S08 | W28 | .495 | 13937 | 20.3 | 18D | -F | | P | 1005 | 34 | .4 | |
| GRP63050 | 22 | 1012+1 | 1035 1041+0 | 1200 | S09 | W29 | .503 | 13937 | 20.3 | 108 | -F | | | | 110 | 1.3 | DO |
| HTPR | 22 | 1012 | 1041 | 1200 | S08 | W28 | .495 | 13937 | 20.3 | 108 | -F | | C | 1041 | 80 | .9 | |
| MONT | 22 | 1013 | 1041 | 1140D | S08 | W27 | .481 | 13937 | 20.4 | 87D | -N | | C | 1041 | 150 | | |
| KHAR | 22 | 1030E | 1035 | 1125D | S12 | W29 | .517 | 13937 | 20.3 | 55D | 1F | | P | 1035 | 220 | 2.6 | DO |

# Hα SOLAR FLARES

## NOVEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 NOV | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | CONC | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP63051 | 22 | 1404+1 | 1407+2 | 1411 | S05 | W34 | .569 | 13937 | 20.0 | 7 | -F | | | | 40 | .5 | E |
| HTPR | 22 | 1404 | 1409 | 1411 | S05 | W34 | .569 | 13937 | 20.0 | 7 | -F | | C | 1409 | 30 | .3 | |
| MCMA | 22 | 1405 | 1407 | 1410 | S05 | W34 | .569 | 13937 | 20.0 | 5 | -F | | C | 1407 | 50 | .6 | E |
| | 22 | 2139 | 2200 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 23 | 0300 | 0316 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 23 | 0320 | 0329 | NO FLARE PATROL | | | | | | | | | | | | | |
| 52 ARCE | 23 | 0950 | 0955 | 0957 | S04 | W44 | .699 | 13937 | 20.1 | 7 | -F | | C | 0955 | 31 | .4 | |
| | 23 | 1858 | 1903 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 23 | 2314 | 2330 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 24 | 0325 | 0334 | NO FLARE PATROL | | | | | | | | | | | | | |
| 53 ARCE | 24 | 0855 | 0855 | 0855 | S10 | W67 | .925 | 13937 | 19.3 | | -F | | C | 0855 | 9 | | D |
| | 24 | 2053 | 2103 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 24 | 2115 | 2126 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 24 | 2146 | 2153 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 1817 | 1851 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 2120 | 2125 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 2129 | 2205 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 0356 | 0400 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 0417 | 0419 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 0429 | 0437 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1435 | 1440 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1456 | 1519 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1554 | 1556 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1628 | 1857 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1900 | 1916 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 1930 | 2043 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 2056 | 2120 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 2124 | 2134 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 26 | 2156 | 2204 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 0326 | 0339 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 0409 | 0442 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 0513 | 0523 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 1400 | 1420 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 1548 | 1553 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 1836 | 1920 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 2001 | 2007 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 2103 | 2117 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 27 | 2121 | 0009 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 0529 | 0534 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 0546 | 0550 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 0606 | 0613 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 1624 | 1631 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 2145 | 2209 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1413 | 1438 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1441 | 1500 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1506 | 1512 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1523 | 1530 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1533 | 1627 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 1759 | 1812 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 2004 | 2021 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 2143 | 2153 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 1320 | 1330 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 1335 | 1345 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 1415 | 1425 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 1435 | 1525 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 1530 | 1630 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 2147 | 2159 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 30 | 2305 | 2315 | NO FLARE PATROL | | | | | | | | | | | | | |

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium $D_3$ in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

## DAILY FLARE INDICES
Includes all Flares

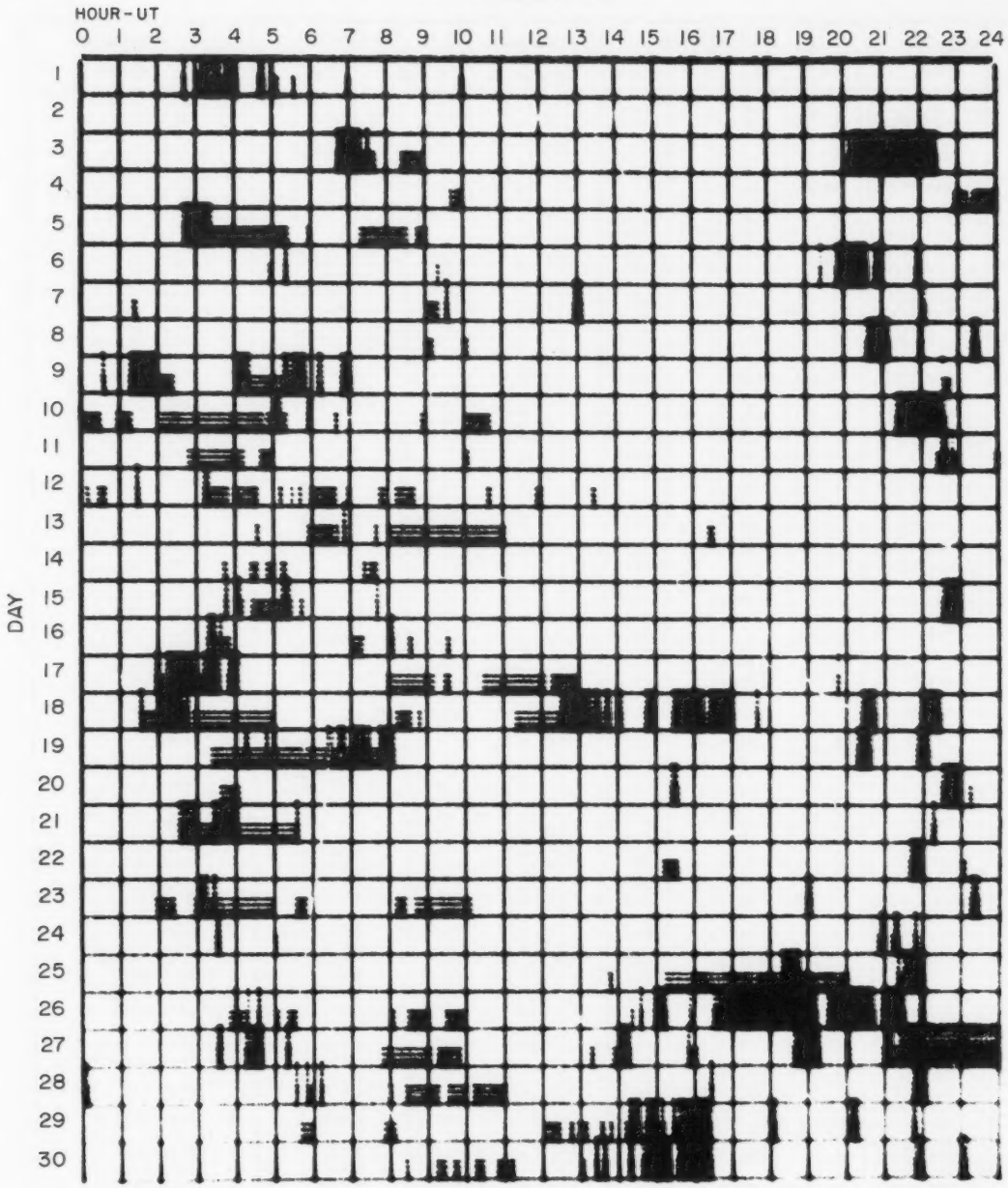
| Date | Flare Index | HR. OBS. | Date | Flare Index | HR. OBS. | Date | Flare Index | HR. OBS. |
|---|---|---|---|---|---|---|---|---|
| 751101 | 0.00 | 22.8 | 751112 | 13.95 | 23.7 | 751122 | 7.71 | 23.7 |
| 751103 | 0.00 | 21.0 | 751113 | 0.00 | 23.9 | 751123 | 1.93 | 23.1 |
| 751104 | 9.29 | 24.0 | 751114 | 22.65 | 24.0 | 751124 | .87 | 23.4 |
| 751105 | 18.89 | 23.2 | 751115 | 47.55 | 22.9 | 751125 | 0.00 | 22.8 |
| 751106 | 27.04 | 22.7 | 751116 | 34.62 | 23.4 | 751126 | 0.00 | 18.5 |
| 751107 | 4.01 | 23.6 | 751117 | 30.68 | 22.2 | 751127 | 0.00 | 18.8 |
| 751108 | 0.00 | 23.0 | 751118 | 53.69 | 18.8 | 751128 | 0.00 | 23.2 |
| 751109 | .68 | 21.6 | 751119 | 69.73 | 21.5 | 751129 | 0.00 | 21.5 |
| 751110 | 27.24 | 22.3 | 751120 | 21.55 | 23.3 | 751130 | 0.00 | 21.3 |
| 751111 | 7.19 | 23.8 | 751121 | 71.83 | 22.5 | | | |

When no Flare Index is given, it is 0 for that day.

# INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

## NOVEMBER 1975




Observatories included in total patrol:

| | | | | | |
|---|---|---|---|---|---|
| Abastumani | Catania | Hurbanovo | Lvov | Monte Mario | Tehran |
| Arcetri | Culgoora | Istanboul | Manila | Palehua | Upice |
| Athenes | Haute Provence | Kharkov | McMath-Hulbert | Ramey | Voroshilov |
| Boulder | Herstmonceux | Kodaikanal | Meudon | Tachkent | Wendelstein |
| Bucharest | Huancayo | Locarno | Mitaka | | |

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| 3 | 33 | UPIC | 45 C | 1141.7 | 1142.1 | 1.3 | | | | |
| | 29 | UPIC | 4 S/F | 1142.1 | 1142.4 | 1 | | | | |
| 4 | 930 | BORD | 24 R | 1322 | 1341 | | 9 | 3 | | |
| | 2695 | PENT | 240 R | 2010 | 2054 | 44 | 1.6 | 0.8 | | |
| | 2695 | PENT | 24P R | 2054 | | 120 D | 1.6 | | | |
| 5 | 221 | ABST | 6 S | 0900 | 0900.5 | 1 | 21 | | | |
| | 200 | GORK | 6 S | 0900.4 | 0900.7 | 1.3 | 70 | | | |
| | 3100 | CRIM | 24 R | 0903 | 0940 | | 3 | 1 | | |
| | 18 | MCMA | 42 | 1339 | 1354 | 18 | | | 1 | |
| | 1415 | PALE | 2 S/F | 1853 | 1853.3 | 2.2 | 5.6 | 1.7 | | |
| | 2800 | OTTA | 8 S | 1853 | 1853.2 | 0.5 | 3 | 1.5 | | |
| | 2695 | PENT | 21 GRF | 2140 | 2150 | 35 | 1.6 | 0.6 | | |
| | 2695 | PENT | 8 S | 2141.2 | 2141.9 | 0.8 | 0.8 | 0.4 | | |
| | 2695 | PENT | 1 S | 2143 | 2143.2 | 1 | 1.2 | 0.6 | | |
| | 200 | HIRA | 45 C | 2145.5 | 2146.3 | 1 | 60 | 30 | | SL |
| | 207 | VORO | 44 NS | 2300 | 0158 | 240 | 14 | | | |
| 6 | 2000 | TYKW | 45 C | 0015 | 0017.6 | 6 | 4 | 1 | | OR |
| | 1000 | TYKW | 45 C | 0016 | 0018.1 | 4 | 4 | 1 | | OR |
| | 3750 | TYKW | 5 S | 0016 | 0018 | 7 | 2 | 1 | | OL |
| | 9400 | TYKW | 5 S | 0016 | 0020 | 15 | 4 | 2 | | OL |
| | 100 | HIRA | 45 C | 0127 | 0127.6 | 1 | 170 | 40 | | WL |
| | 200 | GORK | 43 NS | 0542 E | | 48 | | 5 | | |
| | 200 | GORK | 6 S | 0556 | 0557.6 | 3.9 | 70 | 35 | | |
| | 3100 | CRIM | 3 S | 0606 | 0608 | 5 | 12 | 4 | | |
| | 2000 | TYKW | 5 S | 0620 | 0633 | 35 | 1.5 | 0.8 | | OR |
| | 950 | GORK | 46 C | 0625.6 | 0627.8 | 4.4 | 49 | | | |
| | 950 | GORK | | | 0628 | | 21 | | | |
| | 950 | GORK | | | 0628.4 | | 11.9 | | | |
| | 650 | GORK | 45 C | 0626 | 0626.2 | 3.9 | 4.7 | | | |
| | 650 | GORK | | | 0627.7 | | 17.5 | | | |
| | 650 | GORK | | | 0628.7 | | 10.7 | | | |
| | 606 | MANI | 4 S/F | 0626 | 0627.7 | 8.6 | 29.9 | 11.3 | | |
| | 200 | HIRA | 45 C | 0626 | 0627.6 | 3.5 | 30 | 6 | | WR |
| | 504 | HIRA | 45 C | 0626 | 0627.6 | 4 | 8 | 6 | | |
| | 100 | GORK | 46 C | 0626.1 | 0626.2 | 3.5 | 9 | | | |
| | 100 | GORK | | | 0627.6U | | 45 D | | | |
| | 100 | GORK | | | 0627.7U | | 45 D | | | |
| | 2950 | GORK | 8 S | 0626.2 | 0627.7 | 3.8 | 12 | 4.7 | | |
| | 1415 | MANI | 4 S/F | 0626.2 | 0627.7 | 7.3 | 14.2 | 6.9 | | |
| | 4995 | MANI | 4 S/F | 0626.2 | 0627.7 | 3.8 | 11.4 | 3.1 | | |
| | 8800 | MANI | 1 S | 0626.2 | 0627.7 | 3.8 | 7.3 | 2.4 | | |
| | 2695 | MANI | 4 S/F | 0626.2 | 0627.7 | 5 | 24.2 | 9.4 | | |
| | 100 | HIRA | 45 C | 0626.2 | 0627.8 | 2.5 | 35 | 10 | | WL |
| | 2000 | TYKW | 45 C | 0626 | 0627.7 | 4 | 65 | 20 | | 01R |
| | 3750 | TYKW | 45 C | 0626 | 0627.6 | 4 | 6 | 3 | | OL |
| | 3750 | TYKW | 29 PBI | 0630 | | 20 | 2 | 1 | | |
| | 1000 | TYKW | 5 S | 0626 | 0627.7 | 4 | 20 | 6 | | 14L/26R/08L |
| | 2695 | ATHN | 4 S/F | 0627.1 | 0627.8 | 3.2 | 17.9 | 5.4 | | |
| | 4995 | ATHN | 1 S | 0627.2 | 0628.6 | 2.9 | 4.7 | 1.4 | | |
| | 1415 | ATHN | 3 S | 0627.3 | 0628.4 | 2.9 | 13.5 | 4.1 | | |
| | 8800 | ATHN | 1 S | 0628 | 0629.6 | 2.2 | 9.2 | 2.8 | | |
| | 1420 | ARCE | 21 | 0810 | 0840.3 | 94 | | | | |
| | 1420 | ARCE | 3 | 0921.2 | 0922.8 | 3.2 | | | | |
| | 9240 | ARCE | 20 | 0813.5 | 0926.2 | 143 | | | | |
| | 200 | GORK | 43 NS | 0842 | | 78 | | 5 | | |
| | 260 | ONDR | 43 NS | 0853 | | 285 | 32 | | | |
| | 2950 | GORK | 20 GRF | 0919.9 | 0922.4 | 18.6 | 7.8 | 2.6 | | |
| | 228 | HARS | 7 C | 0920.2 | 0921 | 3.2 | 79 | 6 D | | |
| | 536 | ONDR | 45 C | 0920.5 | 0922.6 | 5.5 | 70 | 13 | | |
| | 100 | GORK | 41 F | 0920.5 | 0920.7 | 5.1 | 30 | | | |
| | 100 | GORK | | | 0921.3 | | 35 | | | |
| | 100 | GORK | | | 0921.6 | | 15 | | | |
| | 100 | GORK | | | 0922.7U | | 80 D | | | |
| | 200 | GORK | 46 C | 0920.5 | 0920.8 | 3.2 | 70 D | | | |
| | 200 | GORK | | | 0922.4 | | 70 D | | | |
| | 650 | GORK | 4 S/F | 0920.7 | 0922.4 | 3.6 | 55 | | | |
| | 808 | ONDR | 4 S/F | 0920.8 | 0922.8 | 3 | 30 | 21 | | |
| | 260 | ONDR | 45 C | 0920 | 0921.5 | 7 | 32 | 10 | | |
| | 950 | GORK | 4 S/F | 0921.2 | 0922.9 | 3 | 24.8 | | | |
| | 408 | TRST | 45 | 0921.6 | 0922.8 | 2.8 | 46 | 13 | | |
| | 2695 | ATHN | 1 S | 0921.8 | 0922.8 | 2.9 | 4.2 | 1.3 | | |
| | 4995 | ATHN | 1 S | 0921.8 | 0923 | 2.2 | 3.2 | 1 | | |
| | 1415 | ATHN | 4 S/F | 0921.8 | 0922.8 | 2.2 | 15.8 | 4.7 | | |
| | 260 | ONDR | 45 C | 1158.5 | 1210 | 12.5 | 24 | 4 | | |
| | 228 | HARS | 7 C | 1158.5 | 1159.2 | 3 | 79 D | 14 D | | |
| | 127 | TORN | 45 C | 1159 | 1201 U | 3.5 | 30 D | | | OFF SCALE |
| | 808 | ONDR | 4 S/F | 1200 | 1200.5 | 1.5 | 7 | 5 | | |
| | 536 | ONDR | 4 S/F | 1200 | 1200.5 | 2.5 | 9 | 5 | | |
| | 2800 | OTTA | 23 GRF | 1700 | 1715 | 70 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 1 S | 1703.8 | 1704.2 | 1 | 1 | 0.5 | | |
| | 2800 | OTTA | 20 GRF | 1814 | 1840 | 40 | 0.6 | 0.3 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 2800 | OTTA | 32 ABS | 1430 | 1442 | 46 | -1.6 | -0.8 | | |
| | 100 | HIRA | 27 RF | 2200 U | 2217 | 58 | 12 | 7 | | SL |
| 8 | 2800 | OTTA | 1 S | 1851.7 | 1852 | 2.5 | 0.8 | 0.4 | | |
| | 2800 | OTTA | 20 GRF | 1919 | 1922 | 23 | 1 | 0.8 | | |
| 9 | 3100 | CRIM | 24 R | 0714 | 0735 | | 1 | | | |
| | 2800 | OTTA | 1 S | 1922.9 | 1924.5 | 3 | 0.8 | 0.4 | | |
| 10 | 500 | HIRA | 45 C | 0059.3 | 0102.3 | 40 | 14 | 6 | | |
| | 207 | VORO | 4 C | 0059.5 | 0102.7 | 3.7 | 118 | | | |
| | 3750 | TYKW | 5 S | 0059 | 0102 | 6 | 2 | 1 | | OL,067020F |
| | 1000 | TYKW | 45 C | 0059 | 0101.3 | 5 | 6 | 1.5 | | |
| | 2000 | TYKW | 45 C | 0059 | 0102.6 | 6 | 3 | 1 | | OR |
| | 200 | HIRA | 45 C | 0102.5U | 0102.7U | 1 U | 170 U | 60 U | | WL |
| | 100 | HIRA | 45 C | 0102.5U | 0102.7U | 1 U | 1400 U | 300 U | | WL |
| | 207 | VORO | 3 S | 0227.5 | 0227.7 | 0.5 | 220 | | | |
| | 1000 | TYKW | 45 C | 0231 | 0231.7 | 1 | 64 | 10 | | |
| | 500 | HIRA | 45 C | 0419 | 0419 | 0.7 | 20 | 11 | | |
| | 500 | HIRA | 45 C | 0444.3 | 0445.6 | 4 | 29 | 8 | | |
| | 200 | HIRA | 45 C | 0445 | 0445.4 | 1 | 85 | 40 | | WL |
| | 1000 | TYKW | 45 C | 0445 | 0445.7 | 2 | 2.7 | 0.7 | | |
| | 2000 | TYKW | 5 S | 0446 | 0446.3 | 1 | 1 | 0.3 | | OR |
| | 3100 | CRIM | 1 S | 0720 | 0727 | 2 | 2 | | | |
| | 6100 | KISV | 20 GRF | 0720 | 0730 | 20 | 1 | | | |
| | 221 | ABST | 6 S | 0725.5 | 0725.8 | 0.5 | 21 | | | |
| | 127 | TORN | 45 C | 0725.6 | 0726.9 | 2.8 | 18 | 4 | | |
| | 2950 | GORK | 5 S | 0725.9 | 0727 | 3.3 | 5.6 | 2.7 | | |
| | 200 | GORK | 46 C | 0726 | 0726.3 | 0.7 | 75 D | | | |
| | 200 | GORK | | | 0726.6 | | 75 D | | | |
| | 650 | GORK | 45 C | 0726 | 0726.6 | 1.8 | 4.4 | | | |
| | 650 | GORK | | | 0727.3 | | 6.6 | | | |
| | 100 | GORK | 46 C | 0726.1 | 0726.4 | 1.3 | 30 | | | |
| | 100 | GORK | | | 0726.6 | | 70 | | | |
| | 950 | GORK | 2 S/F | 0726.2 | 0726.9 | 1.9 | 5.2 | | | |
| | 930 | BORD | 45 C | 0726 | 0726.4 | 2 | 10 | 3 | | |
| | 100 | GORK | 41 F | 0741.3 | 0741.4 | 1.8 | 70 | | | |
| | 100 | GORK | | | 0742.4 | | 25 | | | |
| | 100 | GORK | | | 0742.8 | | 24 | | | |
| | 930 | BORD | 4 SF | 0752 | 0752 | 0.3 | 19 | 2 | | |
| | 930 | BORD | 8 S | 0758.6 | 0758.7 | 0.1 | 9 | 1 | | |
| | 6100 | KISV | 20 GRF | 0835 | 0841 | 23 | 1 | | | |
| | 260 | ONDR | 4 S/F | 0841.2 | 0842 | 3 | 17 | 2.8 | | |
| | 200 | GORK | 46 C | 0913.5 | 0913.6 | 1 | 65 | | | |
| | 200 | GORK | | | 0913.8 | | 65 D | | | |
| | 200 | GORK | | | 0914.3 | | 65 D | | | |
| | 6100 | KISV | 20 GRF | 1129 | 1134 | 18 | 1 | | | |
| | 234 | POTS | | 1129.4 | 1129.5 | 1.1 | 350 | 20 | | |
| | 200 | GORK | 46 C | 1129.4 | 1129.7 | 1.3 | 90 D | | | |
| | 200 | GORK | | | 1130.2 | | 90 D | | | |
| | 100 | GORK | 46 C | 1129.4 | 1129.7 | 1.5 | 75 | | | |
| | 100 | GORK | | | 1130.2 | | 75 | | | |
| | 260 | ONDR | 45 C | 1129 | 1129.5 | 2 | 138 | 14 | | |
| | 536 | ONDR | 8 S | 1130.5 | 1130.5 | 0.3 | 10 | | | |
| | 606 | SGMR | 22 GRF | 1132 E | 1134.2 | 12.20 | 36.9 | 22.1 | | |
| | 2800 | OTTA | 20 GRF | 1300 | 1345 | 80 | 2.4 | 1.4 | | |
| | 2800 | OTTA | 20 GRF | 1425 | 1435 | 75 | 2.8 | 1.4 | | |
| | 2800 | OTTA | 1 S | 1911.8 | 1912 | 1.5 | 1.4 | 0.7 | | |
| 11 | 3750 | TYKW | 20 GRF | 0105 | 0116 | 100 | 3 | 1 | | OL,247002F |
| | 2000 | TYKW | 20 GRF | 0110 | 0116 | 60 | 2.5 | 0.8 | | OR |
| 12 | 930 | BORD | 4 SF | 0735.4 | 0735.4 | 0.6 | 14 | 2 | | |
| | 9240 | ARCE | 20 | 0801.6 | 0921.8 | 220 U | | | | |
| | 1420 | ARCE | 20 | 0817 | 0910 | 193 U | | | | |
| 13 | 100 | HIRA | 45 C | 0618 | 0618.7 | 1.2 | 100 | 30 | | WL |
| | 200 | HIRA | 45 C | 0618 | 0618.1 | 1 | 30 | 10 | | WL |
| | 200 | GORK | 41 F | 0618 | 0618.1 | 2.1 | 60 | | | |
| | 100 | HIRA | 45 C | 0619.6 | 0619.8 | 1 | 110 | 20 | | WL |
| | 930 | BORD | 4 SF | 0753.3 | 0753.3 | 0.3 | 24 | 3 | | |
| | 100 | GORK | 6 S | 0816.3 | 0816.6 | 0.7 | 130 D | | | |
| | 33 | UPIC | 4 S/F | 0816.4 | 0816.7 | 0.8 | | | | |
| | 29 | UPIC | 4 S/F | 0816.5 | 0816.7 | 0.8 | | | | |
| | 260 | ONDR | 8 S | 0942.6 | 0942.6 | 0.2 | 4 | | | |
| | 200 | GORK | | | 0619.7 | | 60 | | | |
| 14 | 100 | HIRA | 27 RF | 0355 | 0436 | 65 | 50 | 30 | | MR |
| | 200 | HIRA | 45 C | 0404 | 0408.7 | 20 | 100 | 10 | | SL |
| | 500 | HIRA | 45 C | 0404 | 0409.2 | 13 | 6 | 2 | | |
| | 100 | HIRA | 45 C | 0404.5 | 0408.7U | 17.5 | 2000 D | 600 D | | ML |
| | 100 | HIRA | | | 0415 U | | 2000 D | | | ML |
| | 8800 | MANI | 4 S/F | 0405 | 0410.2 | 14 | 340 | 95 | | |
| | 2695 | MANI | 4 S/F | 0405 | 0411.5 | 14.8 | 129 | 42.5 | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES
### NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 4995 | MANI | 4 S/F | 0405 | 0410.2 | 14 | 370 | 92 | | |
| | 606 | MANI | 4 S/F | 0405 | 0409.5 | 11.5 | 36.2 | 7.7 | | |
| | 1415 | MANI | 4 S/F | 0405 | 0408.3 | 11.5 | 47 | 12.5 | | |
| | 3750 | TYKW | 45 C | 0405 | 0409.1 | 10 | 175 | 45 | | 25L,066093F |
| | 3750 | TYKW | 29 PBI | 0415 | | 60 | 3 | 1 | | |
| | 1000 | TYKW | 45 C | 0405 | 0408.6 | 12 | 52 | 8 | | 10L |
| | 2000 | TYKW | 45 C | 0405 | 0410.5 | 8 | 72 | 22 | | 03R |
| | 2000 | TYKW | 29 PBI | 0413 | | 20 | 1.5 | 0.5 | | |
| | 9400 | TYKW | 45 C | 0407 | 0409.1 | 9 | 275 | 90 | | 13L |
| | 9400 | TYKW | 29 PBI | 0416 | | 60 | 10 | 4 | | |
| | 9650 | IRKU | 2 S | 0408 U | 0409.5U | 17 U | 138 D | | | ML |
| | 100 | GORK | 44 NS | 0530 | | 270 D | | 10 | | |
| | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 200 | GORK | 43 NS | 0745 | | 195 D | | 5 | | |
| | 260 | ONDR | 43 NS | 0836 | | 312 | 6 | | | |
| | 221 | ABST | 43 NS | 0841.2 | 0849.8 | 17 | 14 | | | |
| | 6100 | KISV | 20 GRF | 0633 | 0635 | 14 | 1 | | | |
| | 113 | POTS | | 1343.6 | 1343.7 | 0.2 | 150 | 30 | | |
| 15 | 550 | KIEV | 27 RF | 0700 E | 0705 U | 35 | 11 | | | |
| | 550 | KIEV | 27 RF | 0903.4 | 0918 | 42 | 23 | 10 | | |
| | 550 | KIEV | 27 RF | 1025 | 1055 | 35 | 22 | 10 | | |
| | 550 | KIEV | 27 RF | 1105 | 1117 | 20 | 9 | 2 | | |
| | 260 | ONDR | 43 NS | 1127 | | 93 | 35 | | | |
| | 234 | POTS | | 1140 | 1231 | 116 | 8 | 3 | | |
| | 200 | GORK | 43 NS | 1147 | | 24 D | | 5 | | |
| | 100 | GORK | 43 NS | 1157 | | 12 D | | 5 | | |
| | 127 | TORN | 43 NS | 1215 U | | 110 D | | | | |
| | 650 | GORK | 46 C | 1137.3 | 1145.1 | 13.6 | 76 | | | |
| | 650 | GORK | | | 1150.5 | | 78 | | | |
| | 650 | GORK | 30 PBI | | 1151 | 14.1 | 3.7 | | | |
| | 808 | ONDR | 46 C | 1139.5 | 1144.2 | 30 | 62 | 8 | | |
| | 228 | HARS | 45 C | 1140 | 1141.2 | 7.5 | 41 | 14 | | |
| | 1470 | BERL | 45 | 1140 | 1143 | 12 | 31 | 9.6 | | |
| | 3000 | BERL | 3 | 1140 | 1145.4 | 14 | 15 | 8.4 | | |
| | 9500 | BERL | 20 | 1140 | 1146 | 60 | 10 | | | |
| | 6100 | KISV | 45 C | 1140 | 1146 | 14 | 19 | | | |
| | 200 | GORK | 48 C | 1140.1 | 1141.6 | 7 | 80 D | | | |
| | 200 | GORK | | | 1145.2 | | 80 | | | |
| | 200 | GORK | | | 1146.5 | | 80 | | | |
| | 950 | GORK | 46 C | 1140.5 | 1143.3 | 10.1 | 26 | | | |
| | 950 | GORK | | | 1145.2 | | 33 | | | |
| | 950 | GORK | | | 1150.4 | | 6.3 | | | |
| | 950 | GORK | 30 PBI | | 1150.7 | 16 U | 4.2 | | | |
| | 1420 | ARCE | 40 | 1140.5 | 1143.1 | 18 | | | | |
| | 408 | TRST | 42 | 1140.6 | 1145 | 7.5 | 110 | | | |
| | 930 | BORD | 45 C | 1140.6 | 1145 | 10.9 | 49 | 18 | | |
| | 2695 | ATHN | 3 S | 1140.7 | 1146.3 | 16.1 | 19.4 | 5.8 | | |
| | 2950 | GORK | 1 S | 1140.8 | 1145.2 | 6.6 | 16.7 | | | |
| | 2950 | GORK | 30 PBI | | 1148 | 12.4 | 7.4 | | | |
| | 536 | ONDR | | 1141.2 | 1145 | | 52 | | | |
| | 536 | ONDR | 46 C | 1141.2 | 1150 | 11 | 55 | 17 | | |
| | 4995 | ATHN | 3 S | 1141.2 | 1145.7 | 16.1 | 18.5 | 5.5 | | |
| | 1415 | ATHN | 3 S | 1141.4 | 1143.4 | 7.1 | 27 | 8.1 | | |
| | 127 | TORN | 45 C | 1141.5 | 1143.7 | 28 U | 45 U | | | INCOMPLETE |
| | 127 | TORN | | | 1208.5 | 3 | 130 | 20 | | |
| | 234 | POTS | | 1141.6 | 1159.5 | 18 | 350 | 1 | | |
| | 100 | GORK | 41 F | 1141.6 | 1143.8 | 15.2 | 130 D | | | |
| | 100 | GORK | | | 1150.1U | | 130 D | | | |
| | 100 | GORK | | | 1156 | | 60 | | | |
| | 33 | UPIC | 46 C | 1141.7 | 1143.6 | 5 | | | | |
| | 29 | UPIC | 46 C | 1141.8 | 1143.9 | 3.8 | | | | |
| | 113 | POTS | | 1141 | 1250 | 154 | 55 | | | |
| | 510 | POTS | | 1141 | 1144.8 | 34 | 40 | 1 | | |
| | 550 | KIEV | 41 F | 1141 | 1145 | 11 | 44 | | | |
| | 9100 | GORK | 22 GRF | 1142.5 | 1151.5 | 24 | 14.1 | 6.3 | | |
| | 9100 | GORK | | | 1202 | | 16.7 | | | |
| | 113 | POTS | | 1143.4 | 1150.6 | 27 | 175 | 5 | | |
| | 9240 | ARCE | 20 | 1143 | 1146.3 | 36 | | | | |
| | 8800 | ATHN | 1 S | 1144.5 | 1145.7 | 3 | 4.4 | 1.3 | | |
| | 228 | HARS | 27 RF | 1145 | 1230 | 105 | 12 | 5 | | |
| | 408 | TRST | 45 | 1149.7 | 1150.4 | 2.7 | 47 | 11 | | |
| | 33 | UPIC | 46 C | 1150.3 | 1151.3 | 3.8 | | | | |
| | 29 | UPIC | 46 C | 1150.6 | 1151.2 | 3 | | | | |
| | 536 | ONDR | | 1158.7 | 1202.2 | | 29 | | | |
| | 536 | ONDR | 46 C | 1158.7 | 1208.6 | 17 | 39 | 3 | | |
| | 408 | TRST | 42 | 1158.7 | 1208.1 | 11 | 53 | | | |
| | 200 | GORK | 41 F | 1159 | 1159.5 | 4 | 40 | | | |
| | 200 | GORK | | | 1202.5 | | 40 | | | |
| | 2950 | GORK | 1 S | 1200 | 1204.7 | 7 | 15.8 | | | |
| | 950 | GORK | 2 S | 1200.3 | 1202.7 | 6.3 | 6.8 | | | |
| | 1470 | BERL | 1 | 1201 | 1201.7 | 1.5 | 4.2 | | | |
| | 550 | KIEV | 41 F | 1201.5 | 1203.6 | 15 | 24 | | | |
| | 2900 | OTTA | 20 GRF | 1620 | 1710 | 75 | 0.8 | 0.4 | | |
| | 15400 | SGMR | 22 GRF | 1712.7 | 1913.5 | 164.9 | 26.8 | 18.8 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES
## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8800 | SGMR | 22 GRF | 1730.9 | 1913.9 | 129.9 | 38.1 | 26.7 | | |
| | 4995 | SGMR | 22 GRF | 1731.9 | 1913.3 | 153 | 250 | 17.5 | | |
| | 2695 | SGMR | 22 GRF | 1732.8 | 1913 | 224.2D | 17.8 | 12.5U | | |
| | 606 | SGMR | 22 GRF | 1818.7 | 1922.4 | 178.3D | 39.5 | 27.6U | | |
| | 245 | SGMR | 6 S | 1819.7 | 1934.2 | 177.3D | 180 | 90 U | | |
| | 410 | SGMR | 6 S | 1819.7 | 1913.2 | 177.3D | 59.4 | 41.6U | | |
| | 1415 | SGMR | 22 GRF | 1819.8 | 1912.8 | 177.2D | 26.8 | 18.8U | | |
| | 2800 | OTTA | 21 GRF | 1840 | 1937 | 240 D | 11 | | | |
| | 2800 | OTTA | 1 S | 1842.5 | 1842.9 | 1.5 | 2.6 | 0.9 | | |
| | 2695 | BOUL | 45 C | 1847.5 | 1848 | 2.5 | 2 | 1 | | |
| | 1420 | BOUL | 45 C | 1847.5 | 1848.5 | 3 | 5 | 2 | | |
| | 2800 | OTTA | 45 C | 1848 | 1849.5 | 7 | 4.6 | 2 | | |
| | 8800 | PALE | 40 F | 1907.6 | 1914.3 | 32.2 | 7.6 | 2.3 | | |
| | 1415 | PALE | 23 GRF | 1908.8 | 1913.2 | 45.5 | 18.1 | 10.6 | | |
| | 1420 | BOUL | 40 F | 1910 | 1913 | 63.5 | 10 | 3 | | |
| | 2695 | BOUL | 40 F | 1912.5 | 1914 | 25.5 | 4 | 1 | | |
| | 2800 | OTTA | 40 F | 1913 | 1914 | 22 | 5.4 | | | |
| | 200 | HIRA | 44 NS | 2115 E | 0617 | 615 D | 80 | 10 | | SL |
| | 100 | HIRA | 44 NS | 2115 E | 0538 | 615 D | 1200 | 130 | | SR |
| | 500 | HIRA | 27 RF | 2115 E | 2152 | 160 D | 17 | 5 | | |
| | 2695 | PENT | 20 GRF | 2140 | 2147 | 20 | 1.2 | 0.6 | | |
| | 3750 | TYKW | 5 S | 2308 | 2308.5 | 3 | 5 | 1 | | 0L |
| 16 | 3750 | TYKW | 5 S | 0114.5 | 0114.8 | 2.5 | 2 | 1 | | 0L,069072F |
| | 1000 | TYKW | 5 S | 0114.5 | 0114.8 | 1 | 1.6 | 0.4 | | 0R |
| | 500 | HIRA | 5 S | 0114.7 | 0114.9 | 1 | 19 | 12 | | |
| | 3750 | TYKW | 20 GRF | 0120 | 0210 | 130 | 3 | 1.5 | | 0L,069072F |
| | 500 | HIRA | 45 C | 0130.5 | 0130.9 | 1.5 | 23 | 10 | | |
| | 1000 | TYKW | 40 F | 0154.8 | 0201.6 | 9 | 8 | 0.7 | | 50L |
| | 500 | HIRA | 45 C | 0155 | 0155.2 | 1 | 130 | 25 | | |
| | 2000 | TYKW | 5 S | 0200 | 0203 | 8 | 1.2 | 0.6 | | 0R |
| | 2000 | TYKW | 5 S | 0201.3 | 0201.6 | 0.6 | 5 | 1 | | 0R |
| | 500 | HIRA | 45 C | 0201.3 | 0201.7 | 2 | 130 | 35 | | |
| | 9400 | TYKW | 5 S | 0205 | 0211 | 30 | 4 | 2 | | 0L |
| | 207 | VORO | 44 NS | 0210 | 0242 | 50 | 59 | | | |
| | 1000 | TYKW | 40 F | 0215 | 0216.6 | 2 | 11 | 2 | | SL |
| | 2000 | TYKW | 5 S | 0230.5 | 0230.9 | 1.2 | 2 | 0.7 | | 0R |
| | 1000 | TYKW | 45 C | 0230.6 | 0231.1 | 1 U | 7 U | 2 U | | |
| | 1000 | TYKW | 40 F | 0235 | 0237.7 | 3.5 | 1.5 | 0.4 | | |
| | 200 | HIRA | 45 C | 0242.2 | 0242.4 | 0.5 | 300 | 100 | | WL |
| | 500 | HIRA | 5 S | 0242.5 | 0242.7 | 0.5 | 119 | 83 | | |
| | 1000 | TYKW | 5 S | 0242 | 0242.4 | 1 | 45 | 4 | | 06L |
| | 500 | HIRA | 45 C | 0529 | 0548.1U | 26 | 130 D | 70 D | | |
| | 1415 | MANI | 4 S/F | 0532.8 | 0548.4 | 45.7 | 285 | 129 | | |
| | 606 | MANI | 4 S/F | 0533.2 | 0548.8 | 47.6 | 330 | 116 | | |
| | 1000 | TYKW | 45 C | 0533 | 0548.5 | 30 | 400 | 70 | | |
| | 6100 | KISV | 45 C | 0535 | 0545 | 30 | 88 | | | |
| | 2000 | TYKW | 28 PRE | 0500 | 0535 | 35 | 1.3 | 0.8 | | 0R |
| | 2000 | TYKW | 45 C | 0535 | 0548.5 | 21 | 180 | 55 | | 02R |
| | 2000 | TYKW | 29 PBI | 0556 | | 50 | 3 | 1 | | |
| | 4995 | MANI | 4 S/F | 0536.7 | 0544.5 | 26 | 107 | 34.8 | | |
| | 4995 | ATHN | 4 S/F | 0536.8 | 0544 | 22.4 | 69.1 | 20.7 | | |
| | 2695 | ATHN | 46 C | 0537 | 0544.4 | 22.2 | 98.7 | 29.6 | | |
| | 2695 | ATHN | 46 C | | 0548.2 | | 91.2 | | | |
| | 1415 | ATHN | 46 C | 0537 | 0547.1 | 23.3 | 229 U | 75.5U | | |
| | 1415 | ATHN | 46 C | | 0548.3 | | 252 U | | | |
| | 1415 | ATHN | 46 C | | 0549.5 | | 219 U | | | |
| | 3750 | TYKW | 45 C | 0537 | 0544.1 | 20 | 108 | 25 | | 20L |
| | 3750 | TYKW | 29 PBI | 0557 | | 60 | 8 | 3 | | |
| | 3100 | CRIM | 3 S | 0538 U | 0544 | 8 | 92 | 31 | | |
| | 3100 | CRIM | 29 PBI | 0546 | 0549 | 74 | 40 | 13 | | |
| | 2695 | MANI | 46 C | 0538.4 | 0544.4 | 26.2 | 152 | 47 | | |
| | 8800 | MANI | 20 GRF | 0540.2 | 0544.5 | 22.3 | 49.7 | 21.6 | | |
| | 200 | HIRA | 45 C | 0540.4 | 0542.1 | 3.5 | 370 | 180 | | WL |
| | 100 | HIRA | 45 C | 0540.5 | 0543.5 | 4.5 | 1000 | 600 | | WL |
| | 200 | GORK | 46 C | 0541 E | 0541.3 | 3.3D | 680 | | | |
| | 200 | GORK | | | 0542.6 | | 680 D | | | |
| | 100 | GORK | 46 C | 0541 E | | 9.1 | 700 D | | | |
| | 100 | GORK | | | 0543.9 | | 1700 | | | |
| | 8800 | ATHN | 3 S | 0541.5 | 0544.5 | 12.1 | 17.9 | 5.4 | | |
| | 950 | GORK | 46 C | 0542 E | 0543.8 | 33 | 110 | | | |
| | 950 | GORK | | | 0547.5 | | 267 | | | |
| | 950 | GORK | | | 0548.5 | | 520 | | | |
| | 950 | GORK | | | 0551.6 | | 242 | | | |
| | 950 | GORK | 29 PBI | | 0615.2 | 108 | 4.9 | | | |
| | 650 | GORK | 46 C | 0542 E | 0544 | 35 | 171 | | | |
| | 650 | GORK | | | 0545.2 | | 162 | | | |
| | 650 | GORK | | | 0548.5 | | 576 | | | |
| | 650 | GORK | 29 PBI | | 0615 | 114 | 12.7 | | | |
| | 2950 | GORK | 46 C | 0542.8E | 0543.6U | 17.2D | 100 D | | | |
| | 2950 | GORK | | | 0546.6 | | 64.2 | | | |
| | 9400 | TYKW | 45 C | 0542 | 0544.1 | 50 | 33 | 8 | | 0L |
| | 200 | GORK | 44 NS | 0544 E | | 376 D | | 20 | | |
| | 100 | GORK | 44 NS | 0550 | | 370 | | 50 | | |
| | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 260 | ONDR | 44 | NS | 0800 E | | 360 D | 28 | | | |
| | 245 | SGMR | 44 | NS | 1140 E | 1928.3 | 576 D | 75.6 | | | |
| | 410 | SGMR | 44 | NS | 1140 E | 1529.7 | 576 D | 54.7 | | | |
| | 100 | HIRA | 44 | NS | 2115 E | 0433 | 615 D | 200 | 80 | | SR |
| | 200 | HIRA | 44 | NS | 2115 E | 2314 | 615 D | 90 | 20 | | SL |
| | 207 | WORD | 44 | NS | 2300 | 2307 | 240 | 50 | | | |
| | 100 | GORK | 46 | C | 0609.8U | 0617.7 | 24 | 2500 | | | |
| | 100 | GORK | | | | 0624.9 | | 200 | | | |
| | 550 | KIEV | 42 | SER | 0924 | 0927 U | 6 | 2 | 1 | | |
| | 930 | BORD | 45 | C | 1144.6 | 1144.6 | 0.3 | 29 | 1 | | |
| | 930 | BORD | 42 | SER | 1214.8 | 1214.8 | 3.5 | 39 | 2 | | |
| | 536 | ONDR | 42 | SER | 1238 | | 62 | 20 | | | |
| | 606 | SGMR | 4 | S/F | 1239.4 | 1240.8 | 12.9 | 18.9 | 5.7 | | |
| | 410 | SGMR | 6 | S | 1239.5 | 1239.7 | 7.6 | 8.2 | 2.4 | | |
| | 245 | SGMR | 6 | S | 1239.7 | 1240.8 | 8.4 | 4.5 | 1.4 | | |
| | 2800 | OTTA | 21 | GRF | 1435 | 1455 | 110 | 4.6 | 2.3 | | |
| | 606 | SGMR | 4 | S/F | 1445.6 | 1450.7 | 22 | 45.9 | 13.8 | | |
| | 1415 | SGMR | 2 | S/F | 1447.2 | 1454.1 | 9.9 | 8.6 | 3.4 | | |
| | 410 | SGMR | 6 | S | 1447.7 | 1450.8 | 9.1 | 7.1 | 2.1 | | |
| | 2800 | OTTA | 1 | S | 1455 | 1455.2 | 2 | 3 | 1.5 | | |
| | 930 | BORD | 45 | C | 1513.6 | 1514.4 | 1.4 | 13 | 2 | | |
| | 930 | BORD | 42 | SER | 1545.7 | 1547 | 4.5 | 17 | 3 | | |
| | 2800 | OTTA | 20 | GRF | 1720 | 1722 | 18 | 1 | 0.5 | | |
| | 2800 | OTTA | 20 | GRF | 1900 | 1907 | 28 | 1 | 0.5 | | |
| | 2800 | OTTA | 21 | GRF | 2010 | 2018 | 40 | 1.6 | 0.8 | | |
| | 2695 | BOUL | 1 | S | 2013.5 | 2014.5 | 1.5 | 3 | 1 | | |
| | 1420 | BOUL | 1 | S | 2013 | 2014 | 2 | 2 | 1 | | |
| | 2800 | OTTA | 2 | S/F | 2014.2 | 2015.1 | 1 | 3 | 1.7 | | |
| | 2695 | SGMR | 2 | S/F | 2014.3 | 2015.3 | 6.4 | 3 | 1.2 | | |
| | 245 | SGMR | 6 | S | 2014.3 | 2015.1 | 3 | 53.1 | 10.6 | | |
| | 410 | SGMR | 6 | S | 2014.3 | 2015.2 | 3.2 | 21.3 | 4.3 | | |
| | 606 | SGMR | 2 | S/F | 2014.7 | 2014.9 | .6 | 7.6 | 3 | | |
| | 1415 | SGMR | 1 | S | 2014.7 | 2014.9 | 1.7 | 1.6 | .6 | | |
| | 2695 | PENT | 240 | R | 2050 | 2118 | 18 | 1.2 | 0.6 | | |
| | 2695 | PENT | 24P | R | 2118 | | 28 | 1.2 | | | |
| | 2695 | PENT | 240 | R | 2136 | 2144 | 8 | 2.4 | 1.2 | | |
| | 2695 | PENT | 24P | R | 2144 | | 60 D | 2.4 | | | |
| 17 | 3750 | TYKW | 20 | GRF | 0220 | 0232 | 40 | 3 | 1 | | OL,069055F |
| | 3750 | TYKW | 5 | S | 0452.5 | 0453.1 | 1.5 | 2 | 1 | | OL |
| | 1000 | TYKW | 5 | S | 0452.5 | 0453.3 | 2.5 | 1.9 | 0.7 | | |
| | 2000 | TYKW | 5 | S | 0452.5 | 0453 | 2.5 | 2 | 0.6 | | OR |
| | 2695 | MANI | 1 | S | 0521.1 | 0523.8 | 8.9 | 2.5 | .6 | | |
| | 8800 | MANI | 1 | S | 0521.1 | 0523.9 | 8.9 | 5 | 2.5 | | |
| | 4995 | MANI | 1 | S | 0521.1 | 0523.8 | 8.9 | 8 | 2.3 | | |
| | 2000 | TYKW | 20 | GRF | 0522 | 0540 | 70 | 2.1 | 1 | | OR |
| | 3750 | TYKW | 20 | GRF | 0522 | 0535 | 60 | 4 | 2 | | OL |
| | 9400 | TYKW | 20 | GRF | 0522 | 0530 | 50 | 4 | 2 | | OL |
| | 100 | GORK | 44 | NS | 0600 E | | 405 D | | 65 | | |
| | 200 | GORK | 44 | NS | 0600 E | | 405 D | | 15 | | |
| | 127 | TORN | 44 | NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 260 | ONDR | 44 | NS | 0806 E | | 353 D | 158 | 33 | | |
| | 221 | ABST | 43 | NS | 0845.8 | 0849.8 | 12 | 19 | | | |
| | 228 | HARS | 43 | NS | 1130 | 1215 | 120 | 180 | 50 | | |
| | 113 | POTS | 45 | | 1134 | 1229 | 159 D | 420 | | | |
| | 234 | POTS | 45 | | 1134 | 1202 | 162 D | 225 | | | |
| | 606 | SGMR | 44 | NS | 1141 E | 1314.2 | 139.3U | 16.4 | | | |
| | 245 | SGMR | 44 | NS | 1141 E | 1856 | 574 D | 61.1 | | | |
| | 410 | SGMR | 44 | NS | 1141 E | 1311.3 | 574 D | 22.7 | | | |
| | 100 | HIRA | 44 | NS | 2120 E | 0017 | 605 D | 1000 | 430 | | SR |
| | 200 | HIRA | 44 | NS | 2120 E | 0030 | 605 D | 120 | 50 | | SL |
| | 207 | WORD | 44 | NS | 2300 | 0030 | 240 | 125 | | | |
| | 650 | GORK | 25 | S/F | 0647.3 | 0647.4 | 0.5 | 5.7 | | | |
| | 9240 | ARCE | 20 | | 0751.7 | 0806.2U | 81.5U | | | | |
| | 1420 | ARCE | 20 | | 0752.5 | 0849.8 | 148 U | | | | |
| | 29 | UPIC | 45 | C | 0753.2 | 0753.8 | 1.2 | | | | |
| | 33 | UPIC | 45 | C | 0753.4 | 0754.1 | 1.8 | | | | |
| | 29 | UPIC | 45 | C | 0810 | 0811 | 1.7 | | | | |
| | 33 | UPIC | 45 | C | 0810.3 | 0810.7 | 1.5 | | | | |
| | 950 | GORK | 20 | GRF | 0839.5 | 0850.5 | 29.5 | 6.8 | 2.2 | | |
| | 650 | GORK | 23 | GRF | 0840 | 0851 | 28 | 13 | | | |
| | 29 | UPIC | 4 | S/F | 0843.3 | 0843.6 | 1.3 | | | | |
| | 33 | UPIC | 4 | S/F | 0843.3 | 0843.6 | 0.6 | | | | |
| | 536 | ONDR | 21 | GRF | 0843 | | 134 | 63 | 11 | | |
| | 650 | GORK | 3 | S | 0858.9 | 0859.2 | 0.6 | 32 | | | |
| | 29 | UPIC | 4 | S/F | 0920 | 0920.3 | 0.5 | | | | |
| | 33 | UPIC | 4 | S/F | 0920.1 | 0920.3 | 0.7 | | | | |
| | 650 | GORK | 46 | C | 0923.3 | 0924.4 | 6.2 | 31 | | | |
| | 650 | GORK | | | | 0926 | | 36 | | | |
| | 536 | ONDR | 46 | C | 0923.5 | | 6 | 63 | 12 | | |
| | 408 | TRST | 41 | | 0923.5 | 0925.3 | 3.5 | 110 | | | |
| | 510 | POTS | | | 0923 | 0928 | 5.5 | 115 | 6 | | |
| | 550 | KIEV | 41 | F | 0924.1 | 0925.2 | 5 | 48 | | | |
| | 950 | GORK | 2 | S/F | 0924.5 | 0925.9 | 3 | 4.6 | 2.2 | | |
| | 100 | GORK | 6 | S | 0924.8 | 0925.2 | 7.5 | 580 | 130 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES
## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 200 | GORK | 41 | F | 0924.8 | 0925.6 | 4.2 | 500 | | | |
| | 200 | GORK | | | | 0928.1 | | 800 | | | |
| | 808 | ONDR | 4 | S/F | 0924 | 0925.3 | 3 | 17 | 5 | | |
| | 408 | TRST | 41 | | 0927.7 | 0928 | 1 | 330 | | | |
| | 650 | GORK | 40 | F | 0930 | 1022.7 | 81 | 12.5 | | | |
| | 408 | TRST | 47 | | 0930 | 0954.2 | 110 | 16 | | | |
| | 1470 | BERL | 20 | | 0953 | 0953.5 | 29 | 3.6 | | | |
| | 808 | ONDR | 4 | S/F | 0953.3 | 0954.4 | 2 | 40 | 5 | | |
| | 550 | KIEV | 27 | RF | 1001 | 1023.5 | 45 | 16 | 8 | | |
| | 950 | GORK | 20 | GRF | 1009 | 1011 | 14.5 | 3.1 | 1.5 | | |
| | 33 | UPIC | 45 | C | 1010.7 | 1012.1 | 2.9 | | | | |
| | 29 | UPIC | 45 | C | 1010.7 | 1011 | 1.9 | | | | |
| | 3000 | BERL | 1 | | 1055 | 1055.6 | 1.5 | 3 | 1.1 | | |
| | 7000 | SAOP | 4 | | 1122.1 | 1126.5 | 30.6 | 47.5 | 22.6 | | |
| | 650 | GORK | 23 | GRF | 1132.1 | | 67 D | | | | |
| | 408 | TRST | 47 | | 1135 | 1156 | 40 | 410 | | | |
| | 3100 | CRIM | 3 | S | 1136 | 1158 | 23 | 89 | 30 | | |
| | 3100 | CRIM | 29 | PBI | 1159 | 1159 | 60 D | 20 | 7 | | |
| | 808 | ONDR | 49 | GB | 1136 | 1229 | 53 | 640 | 140 | | |
| | 808 | ONDR | | | 1136 | 1156.6 | | 370 | | | |
| | 808 | ONDR | 29 | PBI | 1136 | 1237 | 56 | 50 | 12 | | |
| | 536 | ONDR | 49 | GB | 1136 | | 63 | 70 | 42 | | |
| | 536 | ONDR | 29 | PBI | | 1240 | 64 | 34 | 14 | | |
| | 200 | GORK | 27 | RF | 1137.3 | 1146.5 | 68 | 1000 | | | |
| | 200 | GORK | | | | 1203.2 | | 950 | | | |
| | 200 | GORK | | | | 1229 U | | 950 | | | |
| | 510 | POTS | 45 | | 1137 | 1200 | 116 | 125 | 40 | | |
| | 9100 | GORK | 46 | C | 1138 | 1158.3 | 43 D | 37 | | | |
| | 9100 | GORK | | | | 1212.8 | | 40 | | | |
| | 3000 | BERL | 46 | | 1138.5 | 1157.5 | 94 | 195 | 42 | | |
| | 3000 | BERL | | | | 1158.3 | | 195 | | | |
| | 930 | BORD | 45 | C | 1139 | 1229 | 86 | 675 | 55 | | |
| | 6100 | KISV | 45 | C | 1139 | 1154 | 58 | 40 | | | |
| | 2950 | GORK | 23 | GRF | 1139 | | 67 | | | | |
| | 950 | GORK | 23 | GRF | 1139.2 | | 65 D | | | | |
| | 9500 | BERL | 20 | | 1140 | 1153 | 90 | 26 | | | |
| | 9240 | ARCE | 20 | | 1140.5U | 1154.9 | 100 U | | | | |
| | 1420 | ARCE | | | 1140.5 | 1153.1 | 35.2 | | | | |
| | 1420 | ARCE | 40 | | 1140.5 | 1226.9 | 71 | | | | |
| | 1420 | ARCE | | | 1215.7 | 1226.9 | 35.8 | | | | |
| | 550 | KIEV | 49 | GB | 1140 | 1225 U | 60 | 153 D | | | |
| | 1470 | BERL | 46 | | 1141 | 1227 | 79 | 225 | 50 | | |
| | 2695 | SGMR | 46 | C | 1141 E | 1156.4 | 72.4D | 214 | 52.6U | | |
| | 2695 | SGMR | 46 | C | | 1158.7 | | 263 | | | |
| | 245 | SGMR | 6 | S | 1141 E | 1223.3 | 99.4D | 240 | 71.9U | | |
| | 410 | SGMR | 6 | S | 1141 E | 1156 | 85.8D | 235 | 47 U | | |
| | 606 | SGMR | 47 | GB | 1141 E | 1224 | 84 D | 929 | 949 U | | |
| | 606 | SGMR | 47 | GB | | 1227.2 | | 3162 | | | |
| | 1415 | SGMR | 47 | GB | 1141 E | 1227.2 | 82.7D | 518 | 104 U | | |
| | 1415 | SGMR | 47 | GB | | 1230.5 | | 356 | | | |
| | 9400 | HUAN | 20 | S | 1141.6 | 1158.5 | 162.6 | 30 | 8.3 | | 39L |
| | 4995 | ATHN | 22 | GRF | 1141.9 | 1153.5 | 67.7 | 43.9 | 26.4 | | |
| | 33 | UPIC | 49 | GB | 1141.9 | 1158.6 | 18.1 | | | | |
| | 33 | UPIC | 29 | PBI | 1200 | | 153.6 | | | | |
| | 100 | GORK | 49 | GB | 1142 | 1145 | 63 D | 500 | | | |
| | 100 | GORK | | | | 1146.1 | | 450 | | | |
| | 100 | GORK | | | | 1216.7 | | 1500 | | | |
| | 29 | UPIC | 49 | GB | 1143.4 | 1156.9 | 17.2 | | | | |
| | 29 | UPIC | 29 | PBI | 1200.6 | | 141.7 | | | | |
| | 2695 | ATHN | 46 | C | 1143.5 | 1158 | 67.1 | 223 U | 73.1U | | |
| | 2695 | ATHN | 46 | C | | 1158.4 | | 244 U | | | |
| | 8800 | ATHN | 22 | GRF | 1143.7 | 1153.5 | 63.1 | 41.2 | 24.7 | | |
| | 650 | GORK | 46 | C | 1145.4 | 1149 | 24 | 94 | | | |
| | 650 | GORK | | | | 1155 U | | 139 | | | |
| | 650 | GORK | | | | 1158.5 | | 290 | | | |
| | 950 | GORK | 45 | C | 1145.5 | 1145.7 | 1.2 | 18.6 | | | |
| | 950 | GORK | | | | 1146.2 | | 18.1 | | | |
| | 950 | GORK | 46 | C | 1146.7 | 1148.2U | 16.3 | 64 D | | | |
| | 950 | GORK | | | | 1149.2 | | 60 | | | |
| | 950 | GORK | | | | 1157 U | | 63 D | | | |
| | 950 | GORK | | | | 1158.4 | | 68 | | | |
| | 2950 | GORK | 46 | C | 1147.8 | 1151.5 | 12.1 | 8.8 | | | |
| | 2950 | GORK | | | | 1157.4 | | 92 | | | |
| | 2950 | GORK | | | | 1158.5 | | 133 | | | |
| | 650 | GORK | 46 | C | 1220.2 | 1220.8 | 5.4 | 238 | | | |
| | 650 | GORK | | | | 1223.2 | | 328 | | | |
| | 650 | GORK | | | | 1224 | | 530 | | | |
| | 950 | GORK | 46 | C | 1222.3 | 1223 | 3 | 58 | | | |
| | 950 | GORK | | | | 1224.5 | | 85 | | | |
| | 950 | GORK | | | | 1225 | | 70 | | | |
| | 950 | GORK | 46 | C | 1226.4 | 1227.7 | 4.5 | 32 | | | |
| | 950 | GORK | | | | 1228.7 | | 90 | | | |
| | 950 | GORK | | | | 1230 | | 34 | | | |
| | 650 | GORK | 3 | S | 1226.7 | 1227.1 | 0.8 | 1690 | | | |
| | 2950 | GORK | 8 | S | 1236 | 1236.7 | 1.3 | 41 | | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2950 | GORK | 8 S | 1239 | 1239.7 | 1.4 | 90 | | | |
| | 2950 | GORK | 8 S | 1242 | 1242.6 | 1.2 | 41 | | | |
| | 2800 | OTTA | 20 GRF | 1300 E | 1410 | 185 D | 6.6 | | | |
| | 18 | MCMA | 6 | 1505 | 1508 | 3 | | | 1 | |
| ┌ | 2800 | OTTA | 24O R | 1700 | 1715 | 15 | 1.2 | 0.6 | | |
| └ | 2800 | OTTA | 24P R | 1715 | | 55 | 1.2 | | | |
| ┌ | 2800 | OTTA | 24O R | 1810 | 1825 | 15 | 1.6 | 0.8 | | |
| ├ | 9400 | HUAN | 20 S | 1823.1 | 1835.5 | 31.4 | 9.1 | 3.7 | | O |
| └ | 2800 | OTTA | 24P R | 1825 | | 240 D | 1.6 | | | |
| ┌ | 2800 | OTTA | 8 S | 1843 | 1843.1 | 0.5 | 3.2 | 1.6 | | |
| └ | 2695 | PENT | | 1843 | 1843.1 | 0.5 | | | | |
| | 2800 | OTTA | 1 S | 1944.2 | 1945 | 5 | 1.2 | 0.6 | | |
| | 2695 | PENT | 20 GRF | 2000 | 2005 | 15 | 1 | 0.5 | | |
| | 2800 | OTTA | 1 S | 2018.9 | 2019 | 1.5 | 0.8 | 0.4 | | |
| | 2800 | OTTA | 20 GRF | 2025 | 2040 | 30 | 1 | 0.5 | | |
| 18 | 3750 | TYKW | 5 S | 0105 | 0117 | 25 | 2 | 1 | | OL,069038F |
| ┌ | 1000 | TYKW | 45 C | 0150 | 0238.2 | 140 | 19 | 6 | | |
| ├ | 2800 | TYKW | 20 GRF | 0150 | 0210 | 130 | 2 | 1 | | OR |
| ├ | 3750 | TYKW | 20 GRF | 0150 | 0307 | 130 | 5 | 1 | | OL,069038F |
| └ | 500 | HIRA | 27 RF | 0150 | 0225 | 84 | 8 | 4 | | |
| | 9400 | TYKW | 5 S | 0304 | 0307 | 10 | 3 | 1 | | OL |
| ┌ | 100 | GORK | 44 NS | 0600 E | | 360 D | | 50 | | |
| ├ | 200 | GORK | 44 NS | 0600 E | | 360 D | | 10 | | |
| ├ | 200 | GORK | 3 | 0611 | 0611.2 | 0.9 | 140 | | | |
| ├ | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| ├ | 260 | ONDR | 44 NS | 0810 E | | 355 | 54 | 8 | | |
| ├ | 245 | SGMR | 44 NS | 1142 E | 1226.2 | 572 D | 70.4 | | | |
| ├ | 410 | SGMR | 44 NS | 1142 E | 1423.1 | 572 D | 10.8 | | | |
| ├ | 100 | HIRA | 44 NS | 2120 E | 2258 | 605 D | 970 | 300 | | SR |
| ├ | 200 | HIRA | 44 NS | 2120 E | 2331 | 605 D | 240 | 90 | | SL |
| └ | 207 | VORO | 44 NS | 2300 | 2350 | 240 | 266 | | | |
| ┌ | 100 | GORK | 27 RF | 0615 | 0625.5 | 41 | 1700 | | | |
| └ | 200 | GORK | 3 S | 0626 | 0626.1 | 0.5 | 200 | | | |
| | 9100 | GORK | 1 S | 0658.3 | 0658.8 | 1.3 | 15.3 | 7.6 | | |
| ┌ | 6100 | KISV | 45 C | 0749 | 0754 | 23 | 12 | | | |
| ├ | 2950 | GORK | 20 GRF | 0752.2U | 0840.6 | 177 | 16.5 | 7 | | |
| └ | 3100 | CRIM | 1 S | 0753 | 0754 | 6 | 5 | 2 | | |
| ┌ | 3000 | BERL | 20 | 0814 U | 0817.5 | 6 U | 2.1 | | | |
| ├ | 1420 | ARCE | 20 | 0815.2 | 0851.3 | 68.5 | | | | |
| ├ | 9240 | ARCE | 20 | 0815.7 | 0851.4 | 200 U | | | | |
| ├ | 1470 | BERL | 2 | 0816 | 0817.8 | 2.5 | 3 | 1 | | |
| ├ | 6100 | KISV | 20 GRF | 0823 | 0826 | 4 | 2 | | | |
| ├ | 3100 | CRIM | 31 ABS | 0824 | 0830 | 11 | 1 | | | |
| ├ | 3100 | CRIM | 1 S | 0835 | 0839 | 17 | 3 | 1 | | |
| ├ | 6100 | KISV | 20 GRF | 0839 | 0844 | 8 | 4 | | | |
| └ | 221 | ABST | 41 F | 0850 | 0851 | 2 | 18 | 10 | | |
| | 930 | BORD | 4 SF | 0926 | 0926.1 | 0.2 | 30 | 2 | | |
| ┌ | 200 | GORK | 41 F | 0933 | 0933.5 | 8.3 | 500 | | | |
| ├ | 200 | GORK | | | 0937.6 | | 400 | | | |
| └ | 200 | GORK | | | 0941.3 | | 200 | | | |
| ┌ | 1420 | ARCE | 21 | 1031.4 | 1101.8 | 75 | | | | |
| ├ | 1420 | ARCE | 8 | 1033.8 | 1033.9 | 1.4 | | | | |
| ├ | 6100 | KISV | 21 GRF | 1032 | 1034 | 5 | 4 | | | |
| ├ | 3000 | BERL | | 1033 | | | | | | |
| ├ | 1470 | BERL | 4 | 1033.5 | 1033.7 | 1 | 44 | | | |
| ├ | 3100 | CRIM | 1 S | 1034 | 1035 | 2 | 4 | 1 | | |
| ├ | 930 | BORD | 45 C | 1034 | 1034.4 | 1 | 10 | 2 | | |
| ├ | 650 | GORK | 40 F | 1034 | 1034.1 | 1.1 | 9.8 | | | |
| ├ | 3100 | CRIM | 24 R | 1036 | 1130 | | 5 | 2 | | |
| ├ | 950 | GORK | 2 S/F | 1036.9 | 1037.1 | 0.9 | 7 | 2 | | |
| ├ | 100 | GORK | 8 S | 1039.4 | 1039.8 | 2.1 | 750 D | | | |
| ├ | 950 | GORK | 1 S | 1046.2 | 1046.8 | 1.1 | 1.3 | 0.5 | | |
| ├ | 650 | GORK | 1 S | 1046.3 | 1047.4 | 3.2 | 3.2 | 1.6 | | |
| ├ | 100 | GORK | 8 S | 1054.1 | 1055 U | 1.6 | 750 D | | | |
| ├ | 3000 | BERL | 20 | 1059 | 1102.3 | 6 | 1.7 | | | |
| ├ | 1470 | BERL | 2 | 1100 | 1101.3 | 4 | 4.7 | 1.3 | | |
| └ | 930 | BORD | 27 RF | 1100 | 1102 | 4 | 7 | 3 | | |
| ┌ | 3000 | BERL | 20 | 1144 | 1147.5 | 31 U | 2.4 | | | |
| └ | 1470 | BERL | 20 | 1144 | 1150 | 16 | 2 | | | |
| ┌ | 29 | UPIC | 4 S/F | 1203.1 | 1203.3 | 0.5 | | | | |
| └ | 33 | UPIC | 4 S/F | 1203.1 | 1203.1 | 0.5 | | | | |
| ┌ | 33 | UPIC | 41 F | 1223.4 | 1228.8 | 58.8 | | | | |
| └ | 29 | UPIC | 41 F | 1223.8 | 1228.9 | 38.5 | | | | |
| ┌ | 15400 | SGMR | 22 GRF | 1307.3 | 1355 | 66.2 | 12.9 | 7.7 | | |
| ├ | 8800 | SGMR | 22 GRF | 1307.5 | 1355.6 | 55.8 | 21.2 | 12.7 | | |
| ├ | 1415 | SGMR | 22 GRF | 1307.5 | 1357.7 | 77.2 | 39.6 | 23.7 | | |
| ├ | 2695 | SGMR | 22 GRF | 1307.6 | 1358 | 68.8 | 12.9 | 7.7 | | |
| ├ | 4995 | SGMR | 22 GRF | 1309.7 | 1330.4 | 51.5 | 20.6 | 12.3 | | |
| ├ | 2800 | OTTA | 23 GRF | 1309 | 1359 | 290 | 9 | 4.5 | | |
| ├ | 234 | POTS | 45 | 1310 | 1358 | 65 D | 23 | | | |
| ├ | 1470 | BERL | 40 | 1311.5 | 1357.5 | 49 D | 33 | 3.4 | | |
| ├ | 2800 | OTTA | 8 S | 1314 | 1314.3 | 0.5 | 1.2 | 0.6 | | |
| ├ | 3000 | BERL | 22 | 1315 U | 1330 | 45 D | 3.8 | | | |
| ├ | 113 | POTS | 45 | 1323 | 1353 | 53 D | 1400 | | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES
### NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9240 | ARCE | 20 | | 1325.2U | 1359.1 | 93 U | | | | |
| | 536 | ONDR | 8 | S | 1326.3 | 1326.3 | 0.2 | 11 | | | |
| | 2800 | OTTA | 1 | S | 1330 | 1330.5 | 1.5 | 1.6 | 0.8 | | |
| | 1420 | ARCE | 21 | | 1337.9 | 1346 | 49 | | | | |
| | 1420 | ARCE | 4 | | 1352.4 | 1357.8 | 8.6 | | | | |
| | 606 | SGMR | 22 | GRF | 1346.3 | 1358.5 | 23.8 | 29.1 | 17.5 | | |
| | 930 | BORD | 4 | SF | 1349 | 1357.1 | 20 | 30 | 7 | | |
| | 410 | SGMR | 6 | S | 1350.4 | 1356.7 | 19.3 | 58.3 | 17.5 | | |
| | 536 | ONDR | 45 | C | 1350 | 1358 | 10 | 18 | 14 | | |
| | 510 | POTS | 45 | | 1350 | 1358 | 18 | 21 | 5 | | |
| | 806 | ONDR | 4 | S/F | 1353 | 1356.3 | 7 | 15 | 6 | | |
| | 1415 | SGMR | 22 | GRF | 1855.1 | 2009 | 138.9D | 11.2 | 6.7U | | |
| | 2800 | OTTA | 23 | GFF | 1855 | 2028 | 220 D | 10.6 | | | |
| | 2695 | SGMR | 22 | GRF | 1858.7 | 2002.8 | 135.3D | 12.6 | 7.5U | | |
| | 4995 | SGMR | 22 | GRF | 1859 | 2002.6 | 135 D | 16.3 | 4.9U | | |
| | 245 | SGMR | 6 | S | 1859.7 | 1940.7 | 134.3D | 161.1 | 48.3U | | |
| | 606 | SGMR | 22 | GRF | 1903 | 1940.9 | 131 D | 86.5 | 51.9U | | |
| | 410 | SGMR | 6 | S | 1903.3 | 1940.7 | 130.7D | 190.1 | 57 U | | |
| | 8900 | SGMR | 22 | GRF | 1903.4 | 1942 | 130.6D | 12.5 | 7.5U | | |
| | 1415 | PALE | 22 | GRF | 1906.3 | 1909.8 | 53.7 | 4.7 | 2.8 | | |
| | 8800 | PALE | 20 | GRF | 1906.8 | 1912 | 53.2 | 7.6 | 4.5 | | |
| | 2800 | OTTA | 40 | F | 1907 | 1921.5 | 23 | 2.6 | | | |
| | 500 | HIRA | 27 | RF | 2120 E | 2225 | 210 D | 95 | 24 | | |
| | 1000 | TYKW | 40 | F | 2303 | 2317.1 | 24 | 3 | 0.5 | | 99L |
| | 1000 | TYKW | 45 | C | 2346 | 2346.5 | 2 | 3 | 1 | | 95L |
| 19 | 1000 | TYKW | 5 | S | 0116 | 0116.8 | 2 | 1.7 | 0.4 | | OR |
| | 9400 | TYKW | 5 | S | 0127.2 | 0127.6 | 1 | 11 | 3 | | 15L |
| | 1000 | TYKW | 45 | C | 0145 | 0148 | 10 | 2.7 | 0.9 | | 95L |
| | 3750 | TYKW | 5 | S | 0251 | 0252.2 | 20 | 4 | 1 | | 0L |
| | 3750 | TYKW | 28 | PRE | 0320 | 0328 | 8 | 1 | 0.5 | | 070017F |
| | 2695 | MANI | 1 | S | 0328.9 | 0331.2 | 5.3 | 6.9 | 3.2 | | |
| | 4995 | MANI | 3 | S | 0328.9 | 0331.2 | 6.9 | 21.8 | 6.1 | | |
| | 9400 | TYKW | 5 | S | 0328 | 0331 | 15 U | 16 | 5 U | | 35L,RAIN |
| | 3750 | TYKW | 5 | S | 0328 | 0331.2 | 32 | 17 | 4 | | 0L,070017F |
| | 8800 | MANI | 1 | S | 0329.5 | 0331.2 | 3.2 | 8.8 | 2.9 | | |
| | 606 | MANI | 2 | S/F | 0330.3 | 0331.2 | 2.2 | 11.3 | 2 | | |
| | 500 | HIRA | 5 | S | 0330.3 | 0331 | 1.4 | 19 | 8 | | |
| | 1000 | TYKW | 5 | S | 0330.5 | 0330.9 | 1.5 | 2.4 | 0.6 | | OR |
| | 2000 | TYKW | 5 | S | 0330 | 0331 | 2 | 0.8 | 0.4 | | OR |
| | 221 | ABST | 44 | NS | 0500 | 0629.8 | 240 | 14 | | | |
| | 200 | GORK | 44 | NS | 0551.2 | | 303 D | | 40 | | |
| | 127 | TORN | 44 | NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 100 | GORK | 44 | NS | 0724 E | | 276 D | | | | |
| | 29 | UPIC | 43 | NS | 0803 | 0850.4 | 245.3 | | | | |
| | 33 | UPIC | 43 | NS | 0803 | 0850.3 | 251.9 | | | | |
| | 260 | ONDR | 44 | NS | 0804 E | | 346 D | 34 | 14 | | |
| | 536 | ONDR | 43 | NS | 0834 | | 206 | 34 | | | |
| | 245 | SGMR | 44 | NS | 1144 E | 1844.5 | 569 D | 32.8 | | | |
| | 234 | POTS | 45 | | 1304 | 1312 | 20 | 90 | 30 | | |
| | 100 | HIRA | 44 | NS | 2120 E | 0609 | 605 D | 1070 | 490 | | SR |
| | 207 | VORO | 44 | NS | 2308 | 0231 | 240 | 34 | | | |
| | 606 | MANI | 40 | F | 0719.8 | 0723.3 | 7.5 | 14 | 3.2 | | |
| | 4995 | ATHN | 22 | GRF | 0719.9 | 0723.5 | 22.9 | 13.4 | 8 | | |
| | 8800 | ATHN | 22 | GRF | 0720.3 | 0724.2 | 22.1 | 12.4 | 7.4 | | |
| | 2695 | ATHN | 22 | GRF | 0720.3 | 0723.9 | 22.3 | 11.2 | 6.7 | | |
| | 9100 | GORK | 20 | GRF | 0720.3 | 0724 | 38 | 17 | 3.3 | | |
| | 4995 | MANI | 4 | S/F | 0721.7 | 0723.8 | 6 | 19.4 | 6.1 | | |
| | 2695 | MANI | 4 | S/F | 0721.7U | 0724.5 | 6 U | 12.6 | 6.3U | | RFI |
| | 3100 | CRIM | 3 | S | 0722 | 0723.5 | 20 | 10 | 3 | | |
| | 234 | POTS | 45 | | 0722.2 | 0722.4 | 0.2 | 150 | 15 | | |
| | 510 | POTS | 45 | | 0722.5 | 0723.3 | 1 | 25 | 5 | | |
| | 650 | GORK | 45 | C | 0723.5E | 0723.7 | 1.8U | 8.2 | | | |
| | 650 | GORK | | | | 0724.5 | | 10.3 | | | |
| | 950 | GORK | 2 | S/F | 0723.7 | 0724.5 | 1.7D | 15 | | | |
| | 2950 | GORK | 3 | S | 0732 U | 0733 U | 3.6 | 2.4 | 1.2 | | |
| | 650 | GORK | 1 | S | 0738.2 | 0738.8 | 1.1 | 2.8 | 1.4 | | |
| | 29 | UPIC | 46 | C | 0803 | 0803.8 | 4.5 | | | | |
| | 33 | UPIC | 46 | C | 0803 | 0803.2 | 4.4 | | | | |
| | 1470 | BERL | 46 | | 0810 | 0858.3 | 115 | 170 | | | |
| | 9240 | ARCE | 20 | | 0812.8 | 0902 | 164 | | | | |
| | 950 | GORK | 1 | S/F | 0816.6 | 0818.2 | 3.7 | 6.6 | 1.2 | | |
| | 930 | BORD | 45 | C | 0816 | 0858.4 | 100 | 1029 | 25 | | |
| | 650 | GORK | 1 | S | 0817.7 | 0818.2 | 0.8 | 2.3 | 1.2 | | |
| | 950 | GORK | 1 | S | 0823.7 | 0824.3 | 0.8 | 5.5 | 2.6 | | |
| | 950 | GORK | 23 | GRF | 0823.7 | | 84.3 | | | | |
| | 33 | UPIC | 45 | C | 0826.1 | 0826.5 | 9.5 | | | | |
| | 29 | UPIC | 45 | C | 0826.4 | 0827.5 | 8 | | | | |
| | 650 | GORK | 21 | GRF | 0827.3 | | 12.7U | 3.6 | 1.3 | | |
| | 650 | GORK | 1 | S | 0835 | 0835.1 | 0.6 | 3.6 | | | |
| | 650 | GORK | 2 | S/F | 0837.6 | 0838.1 | 0.7 | 3.2 | | | |
| | 950 | GORK | 25 | S/F | 0837.8 | 0837.9 | 0.4 | 10 | 5 | | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES

### NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 650 | GORK | 2 S/F | 0839.3 | 0839.6 | 0.5 | 4.6 | | | |
| | 221 | ABST | 6 S | 0844 | 0844.2 | 0.8 | 78 | | | |
| | 260 | ONDR | 4 S/F | 0844.5 | 0845.4 | 1.5 | 230 | 96 | | |
| | 234 | POTS | 45 | 0845.3 | 0845.8 | 0.5 | 450 | 80 | | |
| | 200 | GORK | 8 S | 0845.3 | 0845.6 | 0.8 | 800 | | | |
| | 650 | GORK | 4 S/F | 0845.5 | 0845.5 | 1.9 | 15 | | | |
| | 950 | GORK | 2 S | 0845.5 | 0845.6 | 0.3 | 14.7 | | | |
| | 408 | TRST | 45 | 0845.5 | 0845.5 | 0.2 | 360 | | | |
| | 510 | POTS | 41 | 0845 | 0858 | 40 | 100 | 10 | | |
| | 33 | UPIC | 49 GB | 0847.1 | 0850.3 | 25.7 | | | | |
| | 29 | UPIC | 49 GB | 0849.2 | 0850.4 | 20.8 | | | | |
| | 650 | GORK | 46 C | 0849.7 | | 40 | | | | |
| | 650 | GORK | | | 0850.7 | 1.6 | 19.4 | | | |
| | 650 | GORK | | | 0858.5 | 0.9 | 273 | | | |
| | 650 | GORK | | | 0859.6 | 0.5 | 191 | | | |
| | 650 | GORK | | | 0901.5 | 0.5 | 191 | | | |
| | 650 | GORK | | | 0907 | 0.8 | 254 | | | |
| | 650 | GORK | | | 0916.7 | 2.4 | 173 | | | |
| | 650 | GORK | 30 PBI | | 0928 | 57 | 9 | | | |
| | 950 | GORK | 46 C | 0849.9 | 0850.6 | 1.8 | 51 | | | |
| | 950 | GORK | | | 0851.4 | | 31 | | | |
| | 808 | ONDR | 4 S/F | 0850 | 0850.5 | 2 | 35 | 19 | | |
| | 3000 | BERL | 3 | 0857.5 | 0901.5 | 78 | 13 | 2.8 | | |
| | 950 | GORK | 46 C | 0857.7 | 0858.4 | 4.5 | 720 | | | |
| | 950 | GORK | | | 0859.3 | | 290 | | | |
| | 950 | GORK | | | 0859.8 | 300 | 300 | | | |
| | 950 | GORK | | | 0901.6 | | 193 | | | |
| | 408 | TRST | 41 | 0858 | 0858.4 | 5 | 63 | | | |
| | 3100 | GRIM | 3 S | 0858 | 0901 | 14 | 8 | 3 | | |
| | 2695 | ATHN | 4 S/F | 0858.2 | 0901.4 | 7.2 | 19.5 | 5.9 | | |
| | 4995 | ATHN | 1 S | 0858.2 | 0901.4 | 6.8 | 10 | 3 | | |
| | 9100 | GORK | 20 GRF | 0858.3 | 0917 | 49.7 | 6.6 | 1.6 | | |
| | 8800 | ATHN | 1 S | 0858.4 | 0901.4 | 6.1 | 4.1 | 1.2 | | |
| | 550 | KIEV | 48 C | 0858.4 | 0907 | 27 | 143 | | | |
| | 809 | ONDR | 49 GB | 0858 | 0907.2 | 49 | 340 | 50 | | |
| | 536 | ONDR | 49 GB | 0858 | 0858 | 22 | 84 | 38 | | |
| | 408 | TRST | 41 | 0905 | 0907.1 | 6 | 85 | | | |
| | 950 | GORK | 46 C | 0905.2 | 0905.6 | 4.2 | 45 | | | |
| | 950 | GORK | | | 0908.5 | | 255 | | | |
| | 2950 | GORK | 20 GRF | 0906 U | 0910.3U | 76 | 22 | | | |
| | 408 | TRST | 45 | 0912 | 0915.7 | 7 | 74 | 29 | | |
| | 950 | GORK | 46 C | 0913 | 0913.3 | 4.3 | 68 | | | |
| | 950 | GORK | | | 0914.3 | | 80 | | | |
| | 950 | GORK | | | 0915.6 | | 239 | | | |
| | 950 | GORK | | | 0917 | | 153 | | | |
| | 408 | TRST | 42 | 0940 | 0941.7 | 2.9 | 70 | | | |
| | 408 | TRST | 45 | 0943 | 0945.8 | 4.3 | 30 | 8 | | |
| | 510 | POTS | 45 | 0944.5 | 0945.8 | 3 | 25 | 8 | | |
| | 650 | GORK | 4 S/F | 0944.9 | 0945.6 | 1.8 | 12.9 | | | |
| | 950 | GORK | 1 S/F | 0945 | 0945.5 | 1.7 | 8 | | | |
| | 9240 | ARCE | 20 | 1143.7 | 1155.6 | 154 | | | | |
| | 2800 | OTTA | 21 GRF | 1325 | 1345 | 92 | 1 | 0.5 | | |
| | 2695 | SGMR | 2 S/F | 1337.4 | 1339.6 | 4 | 1.9 | .8 | | |
| | 4995 | ATHN | 1 S | 1337.5 | 1339.9 | 5.4 | 9.2 | 2.7 | | |
| | 8800 | SGMR | 2 S/F | 1338.2 | 1340.7 | 4.6 | 4.4 | 1.8 | | |
| | 4995 | SGMR | 2 S/F | 1338.5 | 1339.9 | 3.9 | 3.8 | 1.5 | | |
| | 1415 | SGMR | 2 S/F | 1338.5 | 1339.6 | 2.2 | 2.1 | .8 | | |
| | 2695 | ATHN | 1 S | 1338.6 | 1339.6 | 4.1 | 2.8 | .8 | | |
| | 2800 | OTTA | 2 S/F | 1339 | 1340 | 2 | 0.8 | 0.4 | | |
| | 9240 | ARCE | 22 | 1430.7 | 1433.2 | 11 | | | | |
| | 4995 | SGMR | 2 S/F | 1432.1 | 1433 | 2.7 | 2.4 | .7 | | |
| | 8800 | SGMR | 4 S/F | 1432.2 | 1433 | 2.4 | 11.2 | 3.4 | | |
| | 2695 | SGMR | 22 GRF | 1548.8 | 1616.7 | 71.7 | 3.8 | 2.3 | | |
| | 2800 | OTTA | 22 GRF | 1600 | 1630 | 80 | 2.2 | 1.1 | | |
| | 1415 | SGMR | 22 GRF | 1601 | 1611.4 | 59.5 | 2.9 | 1.8 | | |
| | 4995 | SGMR | 22 GRF | 1602.7 | 1616.6 | 58.1 | 7 | 4.2 | | |
| | 8800 | SGMR | 22 GRF | 1608.2 | 1616.5 | 41.2 | 17.9 | 10.8 | | |
| | 15400 | SGMR | 22 GRF | 1612.8 | 1618.7 | 30.7 | 9.8 | 5.9 | | |
| | 2800 | OTTA | 24 R | 1727 | 1755 | 28 | 1.8 | 0.9 | | |
| | 2800 | OTTA | 27A RF | 1727 | | 183 | 1.8 | 1.4 | | |
| | 2800 | OTTA | 24P R | 1755 | | 115 | 1.8 | | | |
| | 1415 | SGMR | 2 S/F | 1813.6 | 1815.5 | 3.1 | .8 | .2 | | |
| | 2695 | SGMR | 2 S/F | 1813.7 | 1815.5 | 2.6 | 2.2 | .6 | | |
| | 606 | SGMR | 2 S/F | 1813.9 | 1815.5 | 3.3 | 2.7 | .8 | | |
| | 4995 | SGMR | 2 S/F | 1814.3 | 1815.5 | 2 | 3.8 | 1.1 | | |
| | 8800 | SGMR | 2 S/F | 1814.5 | 1815.5 | 1.8 | 6.1 | 1.8 | | |
| | 15400 | SGMR | 2 S/F | 1814.8 | 1815.5 | .9 | 7.3 | 2.2 | | |
| | 2695 | SGMR | 22 GRF | 1845.7 | 1852.2 | 19.8 | 3.2 | 1 | | |
| | 2800 | OTTA | 21 GRF | 1845 | 1859 | 25 | 1.8 | 0.9 | | |
| | 4995 | SGMR | 22 GRF | 1846 | 1851.9 | 19.4 | 6.8 | 2 | | |
| | 2800 | OTTA | 8 S | 1847.8 | 1847.8 | 0.1E | 1.7 | | | |
| | 2800 | OTTA | 46F C | 1849 | 1849.9 | 4.5 | 10.6 | 2.4 | | |
| | 2695 | PENT | 20 GRF | 1850 | 1851 | 14 | 2 | 0.9 | | |
| | 4995 | SGMR | 22 GRF | 1923.9 | 1931 | 10.9 | 6.5 | 2 | | |
| | 8800 | SGMR | 4 S/F | 1928.3 | 1931.4 | 5.4 | 13.3 | 4 | | |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES
## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2800 | OTTA | 26 FAL | 1950 | 2030 | 40 | -1.8 | -0.9 | | |
| | 4995 | BOUL | 1 S | 2029 | 2030.5 | 2 | 6 | 2 | | |
| | 2695 | PENT | 1 S | 2101.5 | 2103 | 10 | 0.8 | 0.4 | | |
| | 200 | HIRA | 44 NS | 2120 E | 0459 | 605 D | 100 | 40 | | SL |
| 20 | 100 | GORK | 44 NS | 0550 E | | 370 D | | 150 | | |
| | 200 | GORK | 44 NS | 0551 E | | 429 | | 150 | | |
| | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 260 | ONDR | 44 NS | 0804 E | | 356 D | 74 | 30 | | |
| | 33 | UPIC | 43 NS | 0838.5 | 0920.3 | 271.8 | | | | |
| | 29 | UPIC | 43 NS | 0838.9 | 1058.1 | 272.3 | | | | |
| | 221 | ABST | 43 NS | 0852.5 | 0853 | 8 | 31 | | | |
| | 536 | ONDR | 43 NS | 0857 | 0926.8 | 293 | 38 | 12 | | |
| | 234 | POTS | 45 | 1027 | 1155 | 213 | 50 | | | |
| | 510 | POTS | 45 | 1027 | 1154 | 213 | 28 | | | |
| | 245 | SGMR | 44 NS | 1145 E | 1445.2 | 567 D | 93.7 | | | |
| | 410 | SGMR | 44 NS | 1145 E | 1205.6 | 567 D | 60.3 | | | |
| | 200 | HIRA | 44 NS | 2120 E | 0617 | 605 D | 230 | 85 | | SL |
| | 100 | HIRA | 44 NS | 2120 E | 0020 | 605 D | 1080 | 720 | | SR |
| | 207 | VORO | 44 NS | 2300 | 0018.5 | 240 | 190 | | | |
| | 1420 | ARCE | 21 | 0811.2 | 0846 | 65 | | | | |
| | 221 | ABST | 41 F | 0826.2 | 0829.2 | 2 | 19 | 10 | | |
| | 536 | ONDR | 45 C | 0828 | 0830.5 | 3 | 10 | 3.3 | | |
| | 650 | GORK | 4 S/F | 0829 | 0830.9 | 3 | 15.5 | 3.4 | | |
| | 1470 | BERL | 3 | 0829.7 | 0830.4 | 1.8 | 16 | 6.4 | | |
| | 200 | GORK | 3 S | 0830 | 0830 | 0.4 | 600 | 300 | | |
| | 510 | POTS | 45 | 0830.2 | 0830.5 | 0.7 | 14 | 3 | | |
| | 930 | BORD | 45 C | 0830.3 | 0830.7 | 1.7 | 29 | 4 | | |
| | 1420 | ARCE | 2 | 0830.4 | 0830.6 | 0.6 | | | | |
| | 2950 | GORK | 1 S | 0830.5 | 0831.5 | 3.4 | 5 | 2.5 | | |
| | 950 | GORK | 2 S | 0830.6 | 0830.9 | 1.8 | 11.2 | 2.5 | | |
| | 808 | ONDR | 1 S | 0830 | 0830.6 | 2 | 10 | 4 | | |
| | 1470 | BERL | 40 | 0837 | 0903.3 | 57 | 13 | | | |
| | 33 | UPIC | 45 C | 0838.5 | 0839.5 | 2.3 | | | | |
| | 29 | UPIC | 45 C | 0838.9 | 0839.4 | 1.4 | | | | |
| | 3000 | BERL | 20 | 0840 | 0906 | 149 | 5.6 | | | |
| | 9500 | BERL | 20 | 0844 | 1011 | 213 | 6 | | | |
| | 510 | POTS | 45 | 0847 | 0927 | 80 | 25 | 6 | | |
| | 550 | KIEV | 48 C | 0850 | 0926.7 | 60 | 28 | 8 | | |
| | 650 | GORK | 22 GRF | 0854 U | | 53 | 14.8 | 6.7 | | |
| | 808 | ONDR | 20 GRF | 0858.2 | 0946.3 | 32 | 18 | 13 | | |
| | 1420 | ARCE | 2 | 0902.8 | 0903.3 | 1 | | | | |
| | 1420 | ARCE | 2 | 0905.9 | 0906.2 | 0.8 | | | | |
| | 550 | KIEV | 44 NS | 0905 U | | 300 D | 10 | | | |
| | 950 | GORK | 20 GRF | 0912.7 | 0926.8 | 18.6 | 6.1 | 1.8 | | |
| | 200 | GORK | 2 S/F | 0922 | 0927.8 | 8 | 700 | | | |
| | 9240 | ARCE | 1 | 0942.7 | 0945.3 | 3.7 | | | | |
| | 650 | GORK | 22 GRF | 1030 | | 90 D | 9.1 | 5.3 | | |
| | 1415 | SGMR | 1 S | 1234.5 | 1235.7 | 2 | 4.8 | 1.9 | | |
| | 2695 | SGMR | 1 S | 1234.7 | 1235.8 | 2.3 | 8 | 3.2 | | |
| | 33 | UPIC | 45 C | 1304.9 | 1306.2 | 5.4 | | | | |
| | 29 | UPIC | 45 C | 1305.7 | 1306.2 | 5.5 | | | | |
| | 2800 | OTTA | 27F RF | 1305 | | 210 | 2 | 1.7 | | |
| | 2800 | OTTA | 24 R | 1305 | 1340 | 35 | 2 | 1 | | |
| | 2800 | OTTA | 24P R | 1340 | | 140 | 2 | | | |
| | 9240 | ARCE | 1 | 1418.9 | 1419 | 1 | | | | |
| | 9240 | ARCE | 41 | 1418.9 | 1430.2 | 14.3 | | | | |
| | 9240 | ARCE | 3 | 1429.9 | 1430.2 | 1.2 | | | | |
| | 9240 | ARCE | 1 | 1432 | 1432.5 | 1.2 | | | | |
| | 4995 | SGMR | 2 S/F | 1457.1 | 1502.2 | 8.3 | 2.5 | .8 | | |
| | 2695 | SGMR | 1 S | 1501.2 | 1503.3 | 3.9 | 2 | .6 | | |
| | 2800 | OTTA | 26 FAL | 1600 | 1635 | 35 | -2 | -1 | | |
| | 2800 | OTTA | 27F RF | 1700 | | 130 | 1.2 | 0.8 | | |
| | 2800 | OTTA | 24 R | 1700 | 1750 | 50 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 24P R | 1750 | | 50 | 1.2 | | | |
| | 2800 | OTTA | 26 FAL | 1840 | 1910 | 30 | -1.2 | -0.6 | | |
| | 2800 | OTTA | 20 GRF | 1935 | 1950 | 35 | 1.6 | 0.8 | | |
| | 2800 | OTTA | 20 GRF | 2045 | 2050 | 15 | 0.8 | 0.4 | | |
| 21 | 2000 | TYKW | 5 S | 0310 | 0310.6 | 2 | 2.5 | 1 | | OR |
| | 1000 | TYKW | 45 C | 0310 | 0310.6 | 2 | 2.7 | 0.9 | | |
| | 1000 | TYKW | 5 S | 0316 | 0316.6 | 2 | 1.4 | 0.3 | | |
| | 1000 | TYKW | 45 C | 0329.5 | 0333.4 | 6 | 2.4 | 1 | | |
| | 2000 | TYKW | 45 C | 0329 | 0330.2 | 6 | 1.1 | 0.4 | | OR |
| | 1000 | TYKW | 45 C | 0359 | 0401.2 | 5 | 1.6 | 0.5 | | |
| | 200 | GORK | 44 NS | 0604.2E | | 356 D | | 20 | | |
| | 100 | GORK | 44 NS | 0606 E | | 354 D | | 150 | | |
| | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 260 | ONDR | 44 NS | 0820 E | | 340 D | 44 | 23 | | |
| | 245 | SGMR | 44 NS | 1146 E | 1635.9 | 566 D | 54.5 | | | |
| | 100 | HIRA | 44 NS | 2120 E | 0430 | 605 D | 160 | 118 | | SR |
| | 200 | HIRA | 44 NS | 2120 E | 2251 | 605 D | 50 | 20 | | SL |
| | 207 | VORO | 44 NS | 2300 | 0248 | 240 | 71 | | | |
| | 606 | MANI | 40 F | 0605.2 | 0658.2 | 60.6 | 283 | 101 | | |
| | 606 | MANI | 29 PBI | 0705.6 | 0705.6 | 55.4 | 5.2 | 2.6 | | |
| | 2000 | TYKW | 45 C | 0605 | 0616.7 | 65 D | 460 | 60 U | | 03R |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 4995 | MANI | 4 S/F | 0606.5 | 0618.9 | 56.8 | 198 | 62 | | |
| | 4995 | MANI | 29 PBI | 0703.3 | 0703.3 | 51.7 | 36.9 | 18.5 | | |
| | 8800 | MANI | 4 S/F | 0607.9 | 0619.1 | 57.9 | 89 | 47.4 | | |
| | 8800 | MANI | 29 PBI | 0705.8 | 0705.8 | 47 | 25.3 | 15.8 | | |
| | 2950 | GORK | 23 GRF | 0608.5 | | 101 | | | | |
| | 2695 | ATHN | 46 C | 0609.3 | 0619 | 51.7 | 197.1 | 59.1 | | |
| | 2695 | ATHN | 29 PBI | 0710 | 0710 | 29.9 | 39.6 | 11.9 | | |
| | 2695 | ATHN | 46 C | | 0633.7 | | 146.7 | | | |
| | 2695 | ATHN | 46 C | | 0654.7 | | 109.8 | | | |
| | 950 | GORK | 20 GRF | 0610.3 | | 101 | | | | |
| | 650 | GORK | 46 C | 0610.5 | | 52 | | | | |
| | 650 | GORK | | | 0615.9 | 1.5 | 148 | | | |
| | 650 | GORK | | | 0619.7 | 0.9 | 178 | | | |
| | 650 | GORK | | | 0631.1 | 2.5 | 232 | | | |
| | 650 | GORK | | | 0641.1 | 1.7 | 229 | | | |
| | 650 | GORK | | | 0653.3 | 1.6 | 325 | | | |
| | 650 | GORK | | | 0657.8 | 0.5 | 419 | | | |
| | 650 | GORK | 29 PBI | | 0702.8 | 54 | 23 | | | |
| | 500 | HIRA | 45 C | 0610.7 | 0657.7U | 70 D | 130 D | 48 D | | |
| | 4995 | ATHN | 22 GRF | 0610.8 | 0618.9 | 76.1 | 127.6 | 76.6 | | |
| | 3750 | TYKW | 45 C | 0610 | 0618.8 | 60 D | 182 | 65 U | | COMPLEX POL |
| | 1000 | TYKW | 45 C | 0610 | 0652.6 | 55 D | 390 | 100 U | | |
| | 1000 | TYKW | | | 0640.8 | | 385 | | | |
| | 950 | GORK | 46 C | 0613.4 | 0615.8 | 10.6 | 127 | | | |
| | 950 | GORK | | | 0618.1 | | 165 | | | |
| | 950 | GORK | | | 0619.4 | | 227 | | | |
| | 8800 | ATHN | 22 GRF | 0613.5 | 0619 | 72.8 | 100 | 60 | | |
| | 2695 | MANI | 28 PRE | 0605.8 | 0614 | 8.7 | 16 | 5.7 | | |
| | 2695 | MANI | 46 C | 0614.5 | 0618.8 | 49.4 | 190 | 95 | | |
| | 2695 | MANI | 29 PBI | 0703.9 | 0703.9 | 55.1 | 30.2 | 11.4 | | |
| | 1415 | MANI | 28 PRE | 0605.9 | 0614.3 | 8.7 | 33.9 | 5.2 | | |
| | 1415 | MANI | 47 GB | 0614.6 | 0655 | 49.3 | 790 | 161 | | |
| | 1415 | MANI | 29 PBI | 0703.9 | 0703.9 | 49.9 | 15.7 | 4.4 | | |
| | 200 | GORK | 8 S | 0614.6 | 0615.1 | 0.9 | 1000 | | | |
| | 2950 | GORK | 4 S/F | 0614.6 | 0619 | 9 | 258 | | | |
| | 2695 | MANI | 8 S | 0615.5 | 0615.9 | .6 | 95 | 35.7 | | |
| | 9400 | TYKW | 45 C | 0615 | 0618.8 | 45 D | 88 | 40 U | | 40L |
| | 100 | GORK | 41 F | 0616.3 | 0616.4 | 1.5 | 16000 | | | |
| | 100 | GORK | | | 0617.4 | | 8600 | | | |
| | 9100 | GORK | 48 C | 0616.5 | 0618.7 | 54.3 | 78 | 41 | | |
| | 9100 | GORK | | | 0633.1 | | 64 | | | |
| | 9100 | GORK | | | 0656 | | 37 | | | |
| | 9100 | GORK | 29 PBI | | 0710.8 | 40 | 16.4 | 8.1 | | |
| | 950 | GORK | 46 C | 0624.7 | 0625.7 | 11.5 | 64 | | | |
| | 950 | GORK | | | 0631.8 | | 76 | | | |
| | 2950 | GORK | 4 S/F | 0628 | 0733.3 | 10.4 | 181 | | | |
| | 950 | GORK | 46 C | 0636.5 | 0639.5 | 7.2 | 196 | | | |
| | 950 | GORK | | | 0640.7 | | 262 | | | |
| | 950 | GORK | | | 0642.2 | | 182 | | | |
| | 200 | GORK | 27 RF | 0639 | 0656.3 | 72 | 800 | | | |
| | 200 | GORK | | | 0700.6 | | 600 | | | |
| | 200 | GORK | | | 0725.9 | | 500 | | | |
| | 100 | GORK | 41 F | 0641 | 0641.2 | 14.2 | 3900 | | | |
| | 100 | GORK | | | 0649.6 | | 3200 | | | |
| | 100 | GORK | | | 0654.4 | | 3200 | | | |
| | 510 | POTS | 45 | 0643.8 | 0652.3 | 48 U | 140 | | | |
| | 950 | GORK | 46 C | 0644.1 | 0645.2 | 2.4 | 151 | | | |
| | 950 | GORK | | | 0647.2 | | 122 | | | |
| | 950 | GORK | 46 C | 0651 | 0653.2 | 4 | 344 | | | |
| | 950 | GORK | | | 0657.1 | 4.3 | 564 | | | |
| | 2950 | GORK | 4 S/F | 0651 | 0654.8 | 8.1 | 140 | | | |
| | 33 | UPIC | 45 C | 0730 | | 10.3 | | | | |
| | 29 | UPIC | 45 C | 0734.1 | 0736.4 | 4.4 | | | | |
| | 33 | UPIC | 45 C | 0756.2 | 0800.2 | 6.7 | | | | |
| | 221 | ABST | 46 C | 0756.2 | 0757.2 | 1.5 | 44 | 22 | | |
| | 29 | UPIC | 45 C | 0756.8 | 0759.5 | 3.2 | | | | |
| | 33 | UPIC | 45 C | 0859.3 | 0900.6 | 4.2 | | | | |
| | 29 | UPIC | 45 C | 0900.4 | 0901 | 2.3 | | | | |
| | 9240 | ARCE | 1 | 0908.3 | 0909.7 | 2.4 | | | | |
| | 33 | UPIC | 45 C | 0931.3 | 0934.4 | 4.7 | | | | |
| | 29 | UPIC | 45 C | 0931.5 | 0934.3 | 4.2 | | | | |
| | 9240 | ARCE | 1 | 1401.7 | 1402 | 1 | | | | |
| | 2695 | BOUL | 45 C | 1817 | 1819.5 | 9.5 | 65 | 23 | | |
| | 4995 | BOUL | 3 S | 1822.5 | 1823.5 | 3 | 7 | 2 | | |
| 22 | 100 | GORK | 44 NS | 0559 | | 361 D | | 10 | | |
| | 200 | GORK | 44 NS | 0600 | | 360 D | | 15 | | |
| | 200 | GORK | 8 S | 0632 | 0632.7 | 1.4 | 600 | 300 | | |
| | 127 | TORN | 44 NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 550 | KIEV | 42 SER | 0803 | 1035 | 300 | 49 | | | |
| | 260 | ONDR | 44 NS | 0820 E | | 325 D | 84 | 37 | | |
| | 536 | ONDR | 43 NS | 1010 | | 215 D | 21 | 10 | | |
| | 410 | SGMR | 44 NS | 1147 E | 1219.2 | 564 D | 45.6 | | | |
| | 245 | SGMR | 44 NS | 1147 E | 1450.8 | 564 D | 136.7 | | | |
| | 100 | HIRA | 44 NS | 2120 E | 2305 | 605 D | 1100 | 460 | | SR |

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES

## NOVEMBER 1975

| NOV 1975 | FREQUENCY | STATION | TYPE | | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 200 | HIRA | 44 | NS | 2120 E | 2223 | 605 D | 190 | 100 | | SL |
| | 207 | VORO | 44 | NS | 2300 | 2346 | 240 | 175 | | | |
| | 1470 | BERL | 40 | | 1009 | 1046.2 | 51 | 20 | | | |
| | 408 | TRST | 42 | | 1009.6 | 1014.7 | 6.8 | 28 | | | |
| | 950 | GORK | 22 | GRF | 1012 | 1048 | 47.3 | 1 | | | |
| | 930 | BORD | 40 | F | 1013 | 1047.9 | 47 | 28 | 3 | | |
| | 200 | GORK | 41 | F | 1016.8 | 1019.3 | 11 | 1340 | | | |
| | 200 | GORK | | | | 1020.2 | | 1140 | | | |
| | 200 | GORK | | | | 1022.6 | | 560 | | | |
| | 808 | ONDR | 46 | C | 1017.5 | 1048 | 42 | 20 | 10 | | |
| | 234 | POTS | 40 | | 1018.5 | 1019.1 | 0.7 | 450 | 20 | | |
| | 408 | TRST | 42 | | 1022.5 | 1042.1 | 36 | 64 | | | |
| | 650 | GORK | 23 | GRF | 1022.6 | | 35.4 | | | | |
| | 650 | GORK | 2 | S/F | 1031.6 | 1032.2 | 0.9 | 10.2 | 3.2 | | |
| | 650 | GORK | 46 | C | 1050.1 | 1050.4 | 0.5 | 11.4 | 5.1 | | |
| | 650 | GORK | | | | 1051.7 | 0.5 | 16.3 | | | |
| | 650 | GORK | 22 | GRF | 1101.3 | 1126.8 | 57 | 6.1 | 3 | | |
| | 950 | GORK | 20 | GRF | 1113.3 | 1121 | 46.7D | 4 | 2.5 | | |
| | 930 | BORD | 45 | C | 1215.5 | 1215.5 | 0.8 | 9 | 2 | | |
| 23 | 100 | GORK | 44 | NS | 0557 E | | 363 D | | 15 | | |
| | 200 | GORK | 44 | NS | 0600 E | | 360 D | | 5 | | |
| | 221 | ABST | 43 | NS | 0654.5 | 0657.5 | 8 | 14 | | | |
| | 127 | TORN | 44 | NS | 0700 E | | 420 D | | | | SUNRISE-SUNSET |
| | 260 | ONDR | 44 | NS | 0750 E | | 370 D | 43 | 23 | | |
| | 100 | GORK | 8 | S | 0926.2 | 0926.4 | 0.2 | 400 | | | |
| | 2800 | OTTA | 1 | S | 1441 | 1442 | 3 | 0.8 | 0.4 | | |
| | 1420 | BOUL | 3 | S | 1822.5 | 1823.5 | 2.5 | 6 | 2 | | |
| 24 | 200 | GORK | 41 | F | 0845.2 | 0846 | 7.5 | 40 | | | |
| | 200 | GORK | | | | 0851.1 | | 50 | | | |
| | 200 | GORK | | | | 0852.3 | | 30 | | | |
| | 200 | GORK | 43 | NS | 1000 | | 120 D | | 5 | | |
| | 930 | BORD | 42 | SER | 1526.7 | 1527.4 | 0.7 | 9 | 2 | | |
| 25 | 3100 | CRIM | 1 | S | 1031 | 1033 | 5 | 5 | 2 | | |
| 26 | 260 | ONDR | 8 | S | 1040.8 | 1040.8 | 0.2 | 182 | | | |
| | 200 | HIRA | 45 | C | 2210 | 2244 | 60 U | 30 | 17 | | WL |
| | 100 | HIRA | 45 | C | 2231 | 2303 U | 103 | 270 U | 80 | | WLWR |
| 27 | 7000 | SAOP | 3 | | 1709.6 | 1710.5 | 4.8 | 19.1 | 9 | | |
| 29 | 127 | TORN | 40 | F | 1203 | 1206.7 | 7 | 4 | 0.8 | | |

Reports received from the following observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

SGD 381 Part II (Comprehensive)

# OCTOBER 1975 DATA

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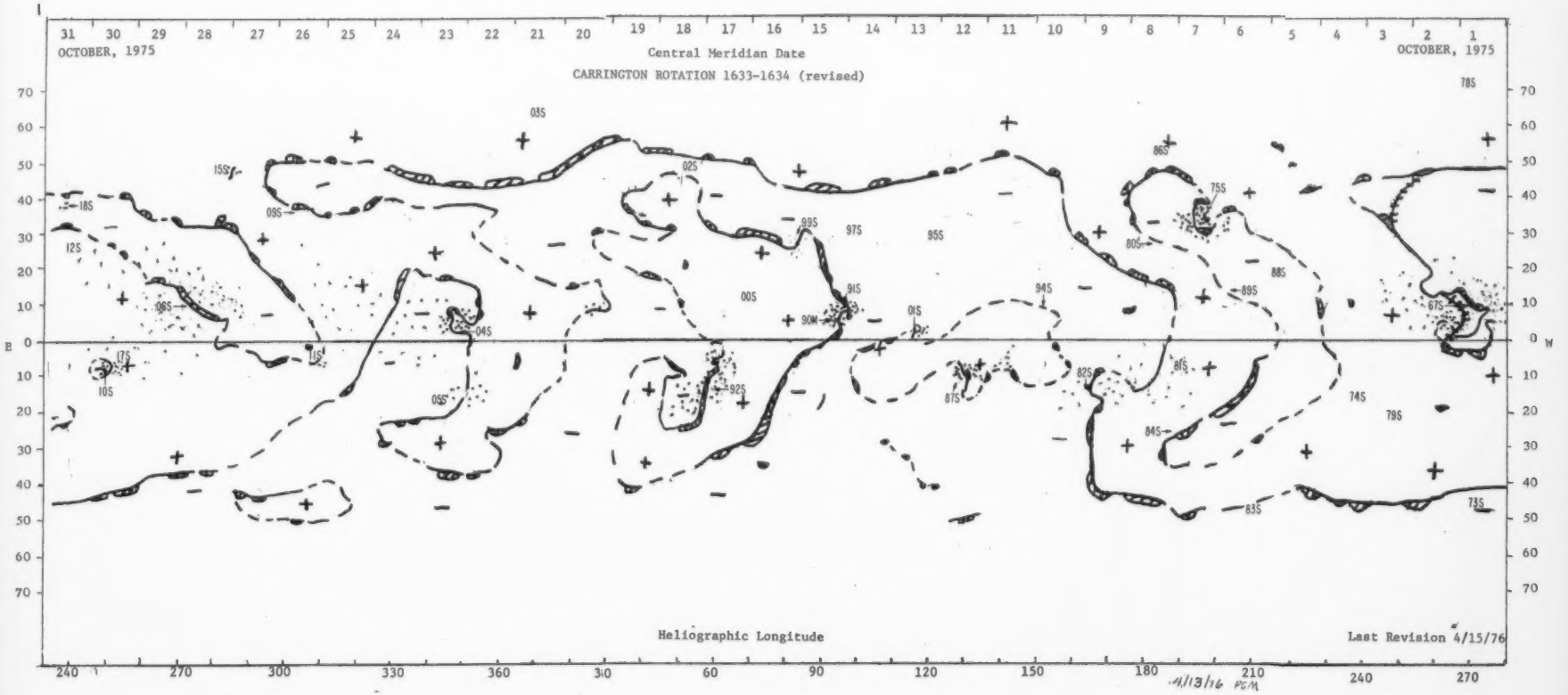
28 Oct 75

# ABBREVIATED CALENDAR RECORD

## Hα SYNOPTIC CHART

OCTOBER 1975



# ABBREVIATED CALENDAR RECORD

## Oct. 1, 1975

| | | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLARES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bursts | cm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dkm | | | | | | | | | | | | | | | | | | | | | | | | | |
| SID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X-Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ap 6 | Kp | 3o | | | | 2+ | | | | 1+ | | | | 2o | | | | 0+ | | | | 1o | | | 1- | | | 1o |
| | sc | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aurora | USSR | | | | | | | | | | | | | | | | | | | | | | | | | |
| | W.E. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cosmic Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Green Corona | E. Limb 7 days earlier: NE- moderately br. | SE- | W. Limb 7 days later: NW- no data | SW- no data |
| Indices | Rz: 15 (Final) 10cm flux: 76 | Flare: 1/22.7 | Ca: 8.0 Ip: 0 | Ia: 0 |
| Solar Regions | (13873) S45 (13878) N71 | 13867 N10 (3) | | |
| Sunspots | | | | |

## Oct. 2, 1975

| | | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLARES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bursts | cm | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| | dm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dkm | | | | | | | | | | | | | | | | | | | | | | | | | |
| SID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X-Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ap 200 | Kp | 2- | | | | 0+ | | | | 0o | | | | 0+ | | | | 0o | | | | 0o | | | 1- | | | 2- |
| | sc | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aurora | USSR | | | | | | | | | | | | | | | | | | | | | | | | | |
| | W.E. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cosmic Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Green Corona | E. Limb 7 days earlier: NE- | SE | W. Limb 7 days later: NW- moderately br. | SW- |
| Indices | Rz: 8 10cm flux: 78 | Flare: 1/22.3 | Ca: 8.0 Ip: 0 | Ia: 0 |
| Solar Regions | | | | |
| Sunspots | (19629) S09 (α)1 | | | |

## Oct. 3, 1975

| | | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLARES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bursts | cm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dkm | | | | | | | | | | | | | | | | | | | | | | | | | |
| SID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X-Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ap 11 | Kp | 1- | | | | 0+ | | | | 1- | | | | 3o | | | | 3+ | | | | 2- | | | 4- | | | 4- |
| | sc | | | | | | | | | | | | | ▲ 1116(15) | | | | | | | | | | | | |
| Aurora | USSR | | | | | | | | | | | | | | | | | | | | | | | | | |
| | W.E. | ϕ = 60° 2050 (glow) central Scotland | | | | | | | | | | | | | | | | | | | | | | | | |
| Cosmic Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Green Corona | E. Limb 7 days earlier: NE- no data | SE- no data | W. Limb 7 days later: NW- | SW- |
| Indices | Rz: 9 10cm flux: 78 | Flare: 0/23.5 | Ca: 7.8 Ip: 0 | Ia: 1 |
| Solar Regions | 13879 S21 | | | |
| Sunspots | | | | |

## Oct. 4, 1975

| | | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLARES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bursts | cm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dkm | | | | | | | | | | | | | | | | | | | | | | | | | |
| SID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X-Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ap 9 | Kp | 4+ | | | | 3- | | | | 2o | | | | 1o | | | | 1- | | | | 0+ | | | 2- | | | 2o |
| | sc | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aurora | USSR | | | | | | | | | | | | | | | | | | | | | | | | | |
| | W.E. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cosmic Rays | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Green Corona | E. Limb 7 days earlier: NE- | SE | W. Limb 7 days later: NW- no data | SW- no data |
| Indices | Rz: 10 10cm flux: 76 | Flare: 10/24.0 | Ca: 6.8 Ip: 0 | Ia: 3 |
| Solar Regions | (13874) S16 | | | |
| Sunspots | | | | |

30
Oct 75

Oct. 5, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 6 | Kp | 3o 3- 2- 1+ 2- 0+ 0+ 1o |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data |
| Indices | | Rz: 8 10 cm flux: 76 Flare: 2/24.0 Ca: 6.7 Ip: 0 Ia: 0 |
| Solar Regions | | (13888) N19 |
| Sunspots | | |

Oct. 6, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 25 | Kp | 2+ 4o 5- 4+ 4- 3+ 5- 3o |
| | sc | |
| Aurora | USSR | |
| | W.E. | φ = 58° 2345 (glow) southern Scotland |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE no data 125° W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 10 10 cm flux: 75 Flare: 3/23.8 Ca: 6.0 Ip: 0 Ia: 4 |
| Solar Regions | | (13883) S47 (13889) N14 |
| Sunspots | | |

Oct. 7, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 38 | Kp | 5- 5+ 5+ 4o 4- 4o 3+ 5+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | φ = 58° 0430 and 1815-2305 (glow) southern Scotland |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 9 10 cm flux: 74 Flare: 3/23.0 Ca: 4.8 Ip: 0 Ia: 5 |
| Solar Regions | | 13875 N33 13881 S07 |
| Sunspots | | 19628 N32 (αp)5 |

Oct. 8, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | \| |
| | dm | \| |
| | m | \| II \| |
| | Dkm | \| |
| SID | | |
| X-Rays | | |
| Ap 45 | Kp | 4+ 5- 5- 4+ 4o 5- 5- 7- |
| | sc | |
| Aurora | USSR | |
| | W.E. | φ = 58° 0322 (R) southern Scotland; φ = 60° 2050-2120 (glow visible between cloud) mid-Atlantic; φ = 62° (overhead and visible to φ = 60°)* |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 16 10 cm flux: 74 Flare: 4/20.4 Ca: 4.1 Ip: 0 Ia: 6 |
| Solar Regions | | 13884 S25 13886 N53 (13880) N27 |
| Sunspots | | |

*Aurora WE continued: 2155 (HA) mid-Atlantic; φ = 60° 2340-0010 (R) eastern Atlantic; φ = 60° 2345 (glow visible between cloud) central Scotland.

Oct. 9, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm — noise storm

SID

X-Rays

Ap 37D — Kp: 5- | 5- | 5+ | 5o | 4o | 3+ | 4+ | 5-

sc

Aurora — USSR

W.E. — $\phi$ = 60° 0000-0010 (R) eastern Atlantic

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data SE- no data — W. Limb 7 days later: NW- no data SW- no data

Indices — Rz: 15 10cm flux: 76 Flare: 2/24.0 Ca: no data Ip: 0 Ia: 6

Solar Regions — 13882 S12 (5)

Sunspots

Oct. 10, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 24D — Kp: 3+ | 5o | 5o | 2+ | 3o | 3+ | 3+ | 4-

sc

Aurora — USSR

W.E. — $\phi$ = 58° 2050-2118 (bright glow) southern Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data SE no data — W. Limb 7 days later: NW- SW-

Indices — Rz: 8 10cm flux: 74 Flare: 0/24.0 Ca: 4.0 Ip: 0 Ia: 6

Solar Regions — (13894) N10

Sunspots

Oct. 11, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 8 — Kp: 3- | 1o | 1+ | 0+ | 2- | 3- | 3o | 3-

sc

Aurora — USSR

W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data SE- no data — W. Limb 7 days later: NW- SW-

Indices — Rz: 8 10cm flux: 74 Flare: 0/23.7 Ca: 4.4 Ip: 0 Ia: 2

Solar Regions

Sunspots

Oct. 12, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 12 — Kp: 3o | 3o | 3o | 2o | 2- | 3o | 4- | 1+

sc

Aurora — USSR

W.E. — $\phi$ = 58° 2300 (glow) southern Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE — W. Limb 7 days later: NW- no data 350° SW-

Indices — Rz: 10 10cm flux: 75 Flare: 7/24.0 Ca: 4.7 Ip: 0 Ia: 3

Solar Regions — 13887 S12

Sunspots — (19630) S12 (Bf)2

Oct. 13, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES — 1n/92

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 7 — Kp: 1o | 3- | 3- | 1o | 2o | 2- | 2- | 2-

sc

Aurora: USSR, W.E.

Cosmic Rays

Green Corona

E. Limb 7 days earlier: NE- | SE- | W. Limb 7 days later: NW- | SW-

Indices: Rz: 21 | 10cm flux: 79 | Flare: 9/24.0 | Ca: 6.4 | Ip: 0 | Ia: 3

Solar Regions: (13895) N29 | (13901) N01

Sunspots

Oct. 14, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 9 — Kp: 1+ | 0+ | 3o | 3o | 2+ | 3- | 2o | 2+

sc

Aurora: USSR, W.E.

Cosmic Rays

Green Corona

E. Limb 7 days earlier: NE- no data | SE no data | W. Limb 7 days later: NW- no data 305° | SW-

Indices: Rz: 26 | 10cm flux: 80 | Flare: 34/23.6 | Ca: 9.0 | Ip: 0 | Ia: 4

Solar Regions: (13897) N30

Sunspots

Oct. 15, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m — noise storm, Dkm

SID

X-Rays

Ap 500 — Kp: 1o | 2- | 1+ | 2+ | 1- | 1- | 1- | 1o

sc

Aurora: USSR, W.E.

Cosmic Rays

Green Corona

E. Limb 7 days earlier: NE- no data | SE- no data | W. Limb 7 days later: NW- | SW-

Indices: Rz: 21 | 10cm flux: 81 | Flare: 22/24.0 | Ca: 11.4 | Ip: 0 | Ia: 2

Solar Regions: (13891) N10 (2) | 13890 N05 | 19631 N05 (βp)5

Sunspots

Oct. 16, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 10 — Kp: 2+ | 2- | 2- | 3o | 2o | 2o | 4- | 2-

sc

Aurora: USSR, W.E.

Cosmic Rays

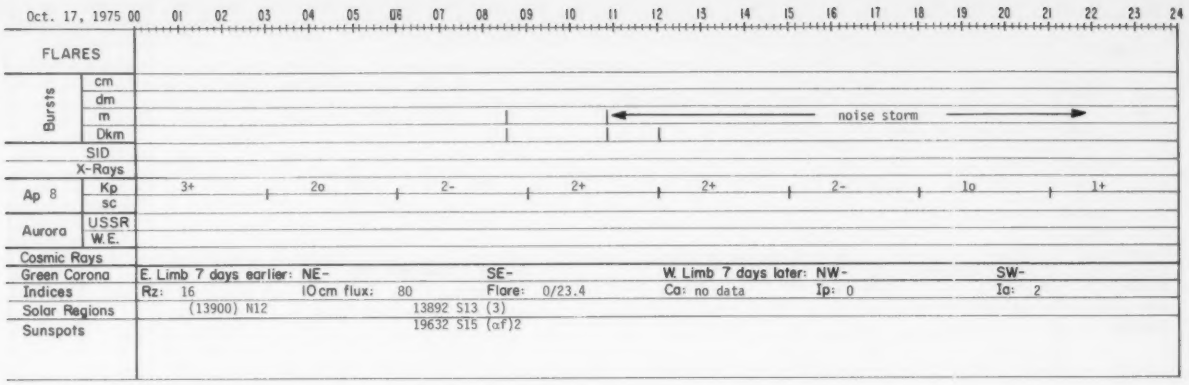
Green Corona

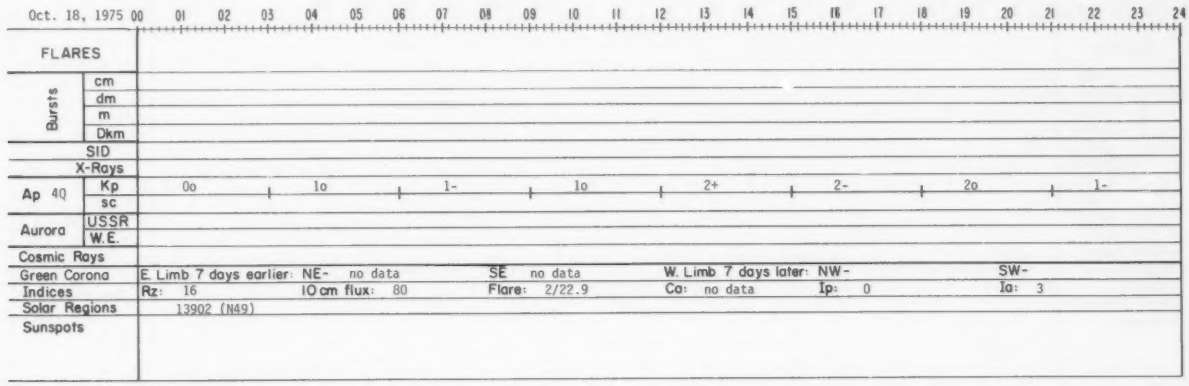
E. Limb 7 days earlier: NE- | SE | W. Limb 7 days later: NW- | SW-

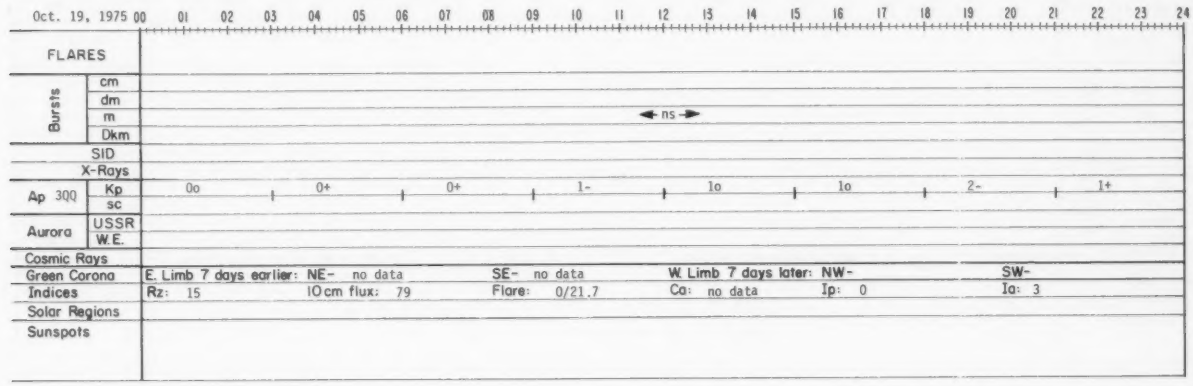
Indices: Rz: 18 | 10cm flux: 79 | Flare: 0/22.8 | Ca: 10.4 | Ip: 0 | Ia: 2

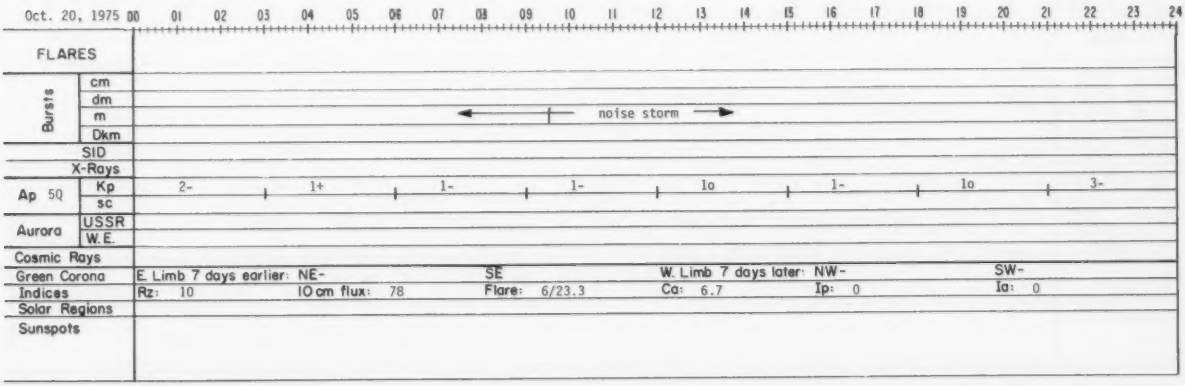
Solar Regions: 13899 N29

Sunspots


Oct. 17, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 8
Kp
3+ 2o 2- 2+ 2+ 2- 1o 1+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 16 10cm flux: 80 Flare: 0/23.4 Ca: no data Ip: 0 Ia: 2
Solar Regions
(13900) N12 13892 S13 (3)
Sunspots
19632 S15 (αf)2


Oct. 18, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 4Q
Kp
0o 1o 1- 1o 2+ 2- 2o 1-
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW-
Indices
Rz: 16 10cm flux: 80 Flare: 2/22.9 Ca: no data Ip: 0 Ia: 3
Solar Regions
13902 (N49)
Sunspots


Oct. 19, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
ns
Dkm
SID
X-Rays
Ap 3QQ
Kp
0o 0+ 0+ 1- 1o 1o 2- 1+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices
Rz: 15 10cm flux: 79 Flare: 0/21.7 Ca: no data Ip: 0 Ia: 3
Solar Regions
Sunspots


Oct. 20, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
noise storm
Dkm
SID
X-Rays
Ap 5Q
Kp
2- 1+ 1- 1- 1o 1- 1o 3-
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW-
Indices
Rz: 10 10cm flux: 78 Flare: 6/23.3 Ca: 6.7 Ip: 0 Ia: 0
Solar Regions
Sunspots

Oct. 21, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | I IV |
| SID | | |
| X-Rays | | |
| Ap 60 | Kp | 3+ 2o 1o 2- 0+ 0+ 0+ 2o |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | E. Limb 7 days earlier: NE- | SE- W. Limb 7 days later: NW- SW- |
| Indices | Rz: 7 10cm flux: 76 | Flare: 7/23.9 Ca: 3.8 Ip: 0 Ia: 2 |
| Solar Regions | (13903) N64 | |
| Sunspots | | |

Oct. 22, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 6 | Kp | 2o 2- 2- 1+ 1o 1- 2- 2+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | E. Limb 7 days earlier: NE- | SE W. Limb 7 days later: NW- SW- |
| Indices | Rz: 0 10cm flux: 75 | Flare: 0/23,8 Ca: 3.0 Ip: 0 Ia: 0 |
| Solar Regions | | |
| Sunspots | | |

Oct. 23, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | I |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 7 | Kp | 3o 3o 1- 1+ 1o 0+ 1+ 1+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | E. Limb 7 days earlier: NE- no data | SE- no data W. Limb 7 days later: NW- SW- |
| Indices | Rz: 0 10cm flux: 75 | Flare: 6/20.6 Ca: 2.3 Ip: 0 Ia: 0 |
| Solar Regions | 13904 N03 (6) | 13905 S16 |
| Sunspots | (19633) N04 (βp)2 | (19634) S16 (αp)2<br>(19635) S15 αp CMP Oct. 22 |

Oct. 24, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 400 | Kp | 2+ 2+ 2- 1- 1- 0+ 0+ 0+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | E. Limb 7 days earlier: NE- | SE W. Limb 7 days later: NW- SW- |
| Indices | Rz: 7 10cm flux: 74 | Flare: 0/23.2 Ca: 2.5 Ip: 0 Ia: 0 |
| Solar Regions | | |
| Sunspots | | |

Oct. 25, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 400 — Kp: 1- | 1- | 1+ | 1+ | 1+ | 1- | 0+ | 0+

sc

Aurora — USSR, W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-

Indices — Rz: 0 10 cm flux: 73 Flare: 0/24.0 Ca: 3.0 Ip: 0 Ia: 3

Solar Regions

Sunspots

Oct. 26, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 50 — Kp: 2o | 0+ | 1o | 1o | 1- | 3- | 1o | 2o

sc

Aurora — USSR, W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW-

Indices — Rz: 0 10 cm flux: 73 Flare: 0/24.0 Ca: 3.5 Ip: 0 Ia: 0

Solar Regions — (13911) S05 13909 N36

Sunspots

Oct. 27, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 50 — Kp: 3o | 3- | 1+ | 0+ | 0+ | 1- | 0+ | 0+

sc

Aurora — USSR, W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-

Indices — Rz: 0 10 cm flux: 73 Flare: 0/24.0 Ca: 5.4 Ip: 0 Ia: 0

Solar Regions

Sunspots

Oct. 28, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm (| |), m, Dkm

SID

X-Rays

Ap 9 — Kp: 2- | 0+ | 1- | 2- | 2- | 2o | 4- | 4-

sc

Aurora — USSR, W.E. — $\phi$ = 63° (overhead, visible to 60° until cloudy) 2030-2100 eastern Atlantic; $\phi$ = 60° 2150-2400 (glow) and at 2350(R), then cloudy *

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- moderately br. SW-

Indices — Rz: 0 10 cm flux: 73 Flare: 0/24.0 Ca: 6.3 Ip: 0 Ia: 2

Solar Regions — (13915) N48 13906 N10 (4)

Sunspots

*Aurora W.E. continued: later central Scotland.

Oct. 29, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 12 | Kp | 3o \| 4- \| 4o \| 1+ \| 0+ \| 1- \| 1+ \| 3o |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 0 10cm flux: 72 Flare: 0/24.0 Ca: 3.9 Ip: 0 Ia: 3 |
| Solar Regions | | |
| Sunspots | | |

Oct. 30, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 9 | Kp | 3- \| 2o \| 2+ \| 2+ \| 1+ \| 2- \| 2- \| 3+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data |
| Indices | | Rz: 0 10cm flux: 71 Flare: 0/21.9 Ca: 3.9 Ip: 0 Ia: 1 |
| Solar Regions | | (13917) S03 13910 S07 |
| Sunspots | | |

Oct. 31, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 19 | Kp | 3o \| 4o \| 5+ \| 3o \| 1- \| 3o \| 3o \| 1+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | $\phi$ = 60° 0350-0500 (glow) central Scotland |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 0 10cm flux: 71 Flare: 0/21.6 Ca: 2.3 Ip: 0 Ia: 2 |
| Solar Regions | | (13912) N26 (13918) N38 |
| Sunspots | | |

## REGIONAL FLARE INDEX
### INCLUDES ALL FLARES

| MC MATH PLAGE NO. | LAT | CMP DATE | DATE FIRST FLARE | DATE LAST FLARE | FLARE-INDEX SUM | FLARE-INDEX MEAN | TOTAL NO. OF FLARES |
|---|---|---|---|---|---|---|---|
| 13875 | N33 | 75/10/07.6 | 75/10/01 | 75/10/09 | 24.54 | 2.73 | 15 |
| 13890 | N 5 | 75/10/15.1 | 75/10/12 | 75/10/20 | 70.64 | 7.85 | 16 |
| 13892 | S14 | 75/10/17.8 | 75/10/13 | 75/10/20 | 8.78 | 1.10 | 3 |
| 13904 | N 3 | 75/10/23.2 | 75/10/21 | 75/10/23 | 12.72 | 4.24 | 3 |

Note:
Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no flares during its disk passage.

# MISCELLANEOUS DATA

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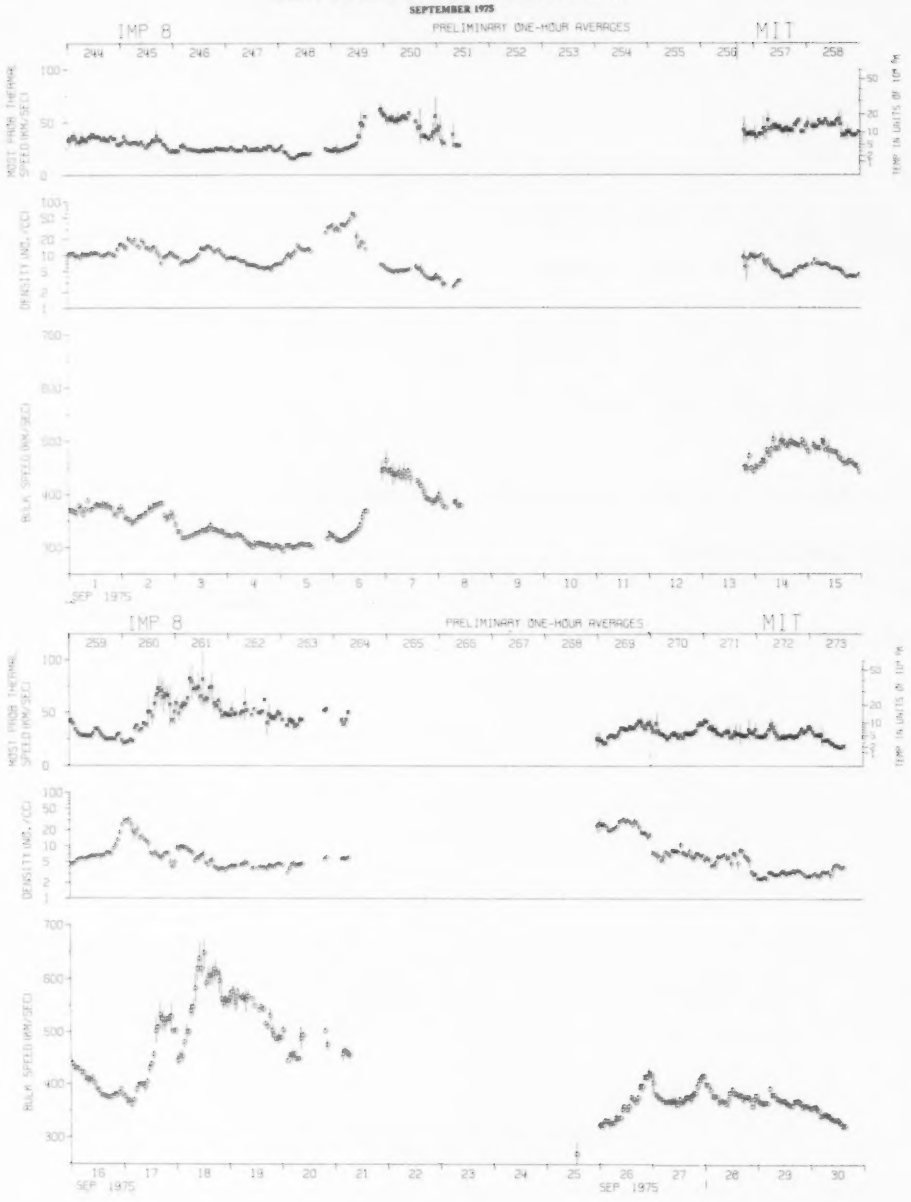
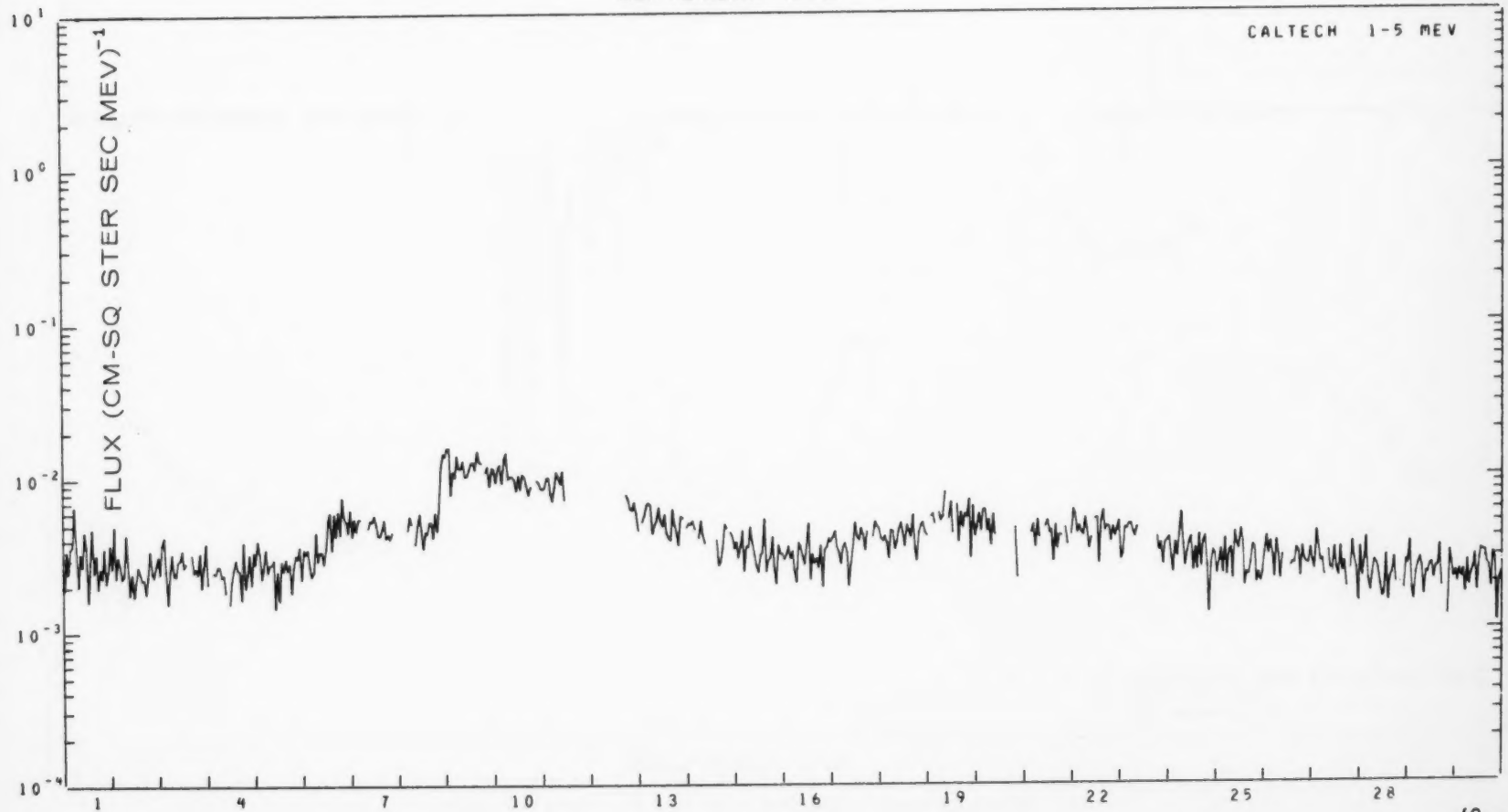
## IMP 7 AND 8 SOLAR WIND PLASMA

**SEPTEMBER 1975**



IMP 7 AND 8 ELECTRONS

SEPTEMBER 1975

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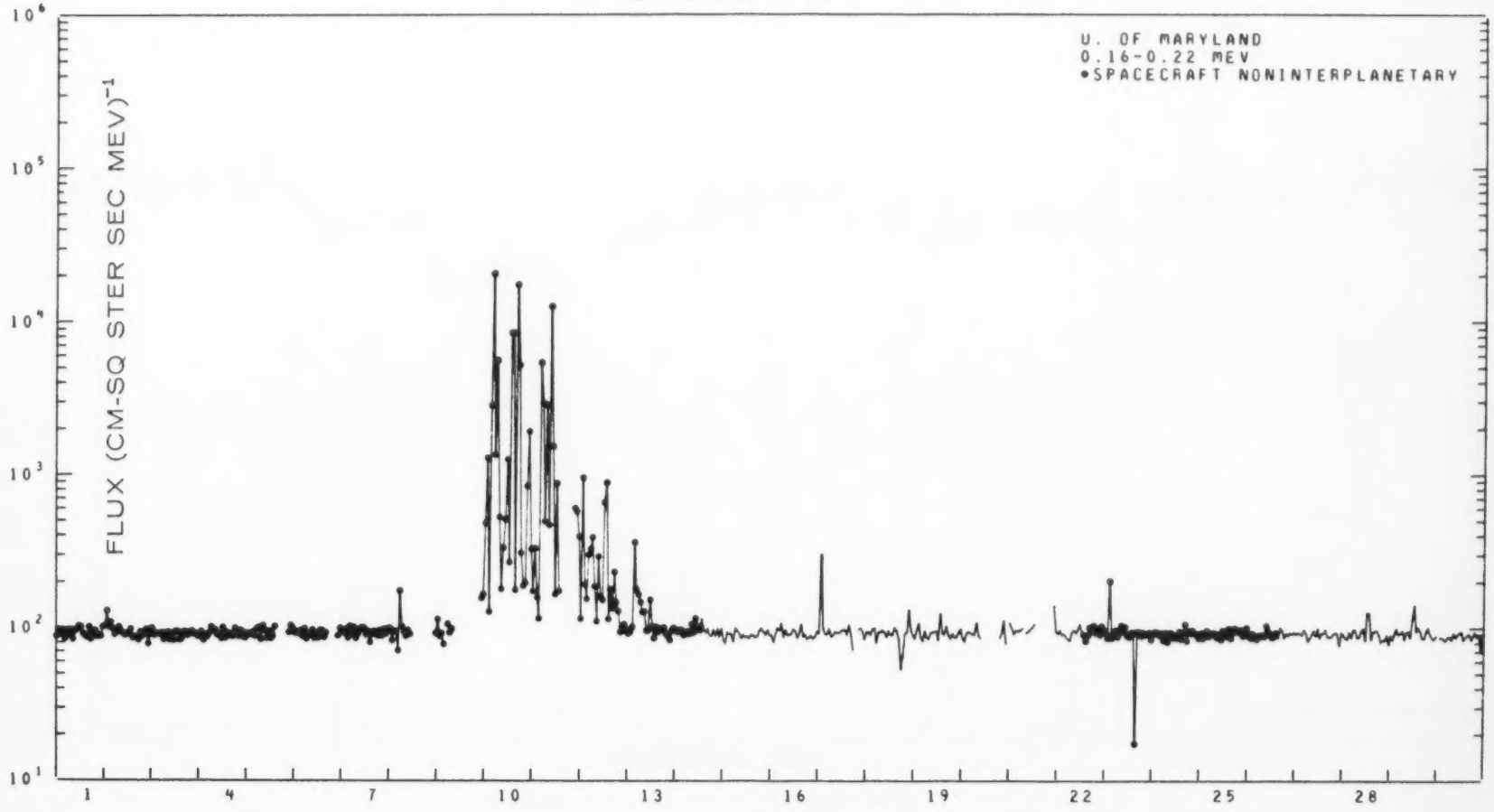
Misc
Sep 75

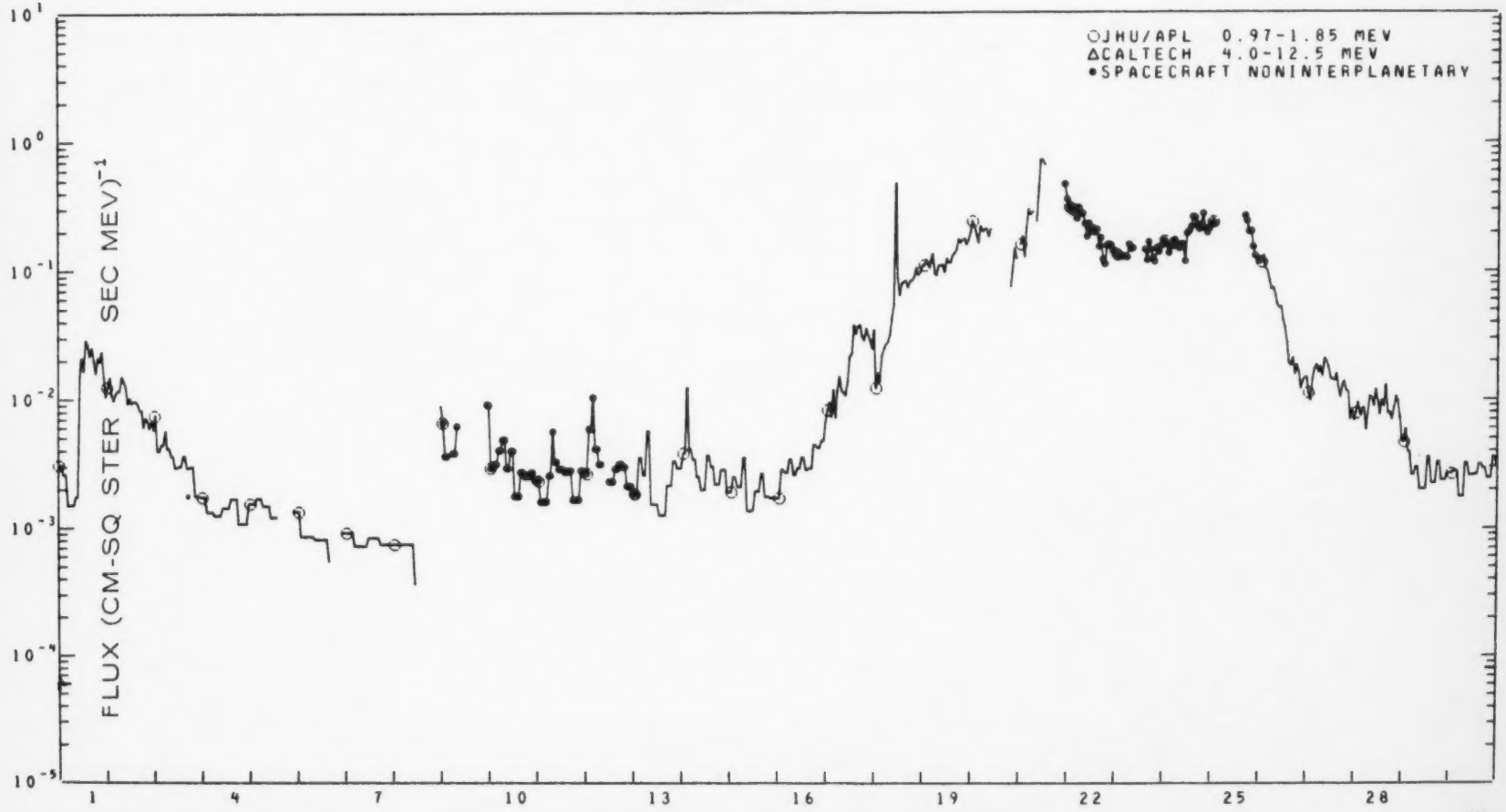
# IMP 7 AND 8 LOW ENERGY PROTONS

## SEPTEMBER 1975



# IMP 7 AND 8 INTERMEDIATE ENERGY PROTONS

## SEPTEMBER 1975

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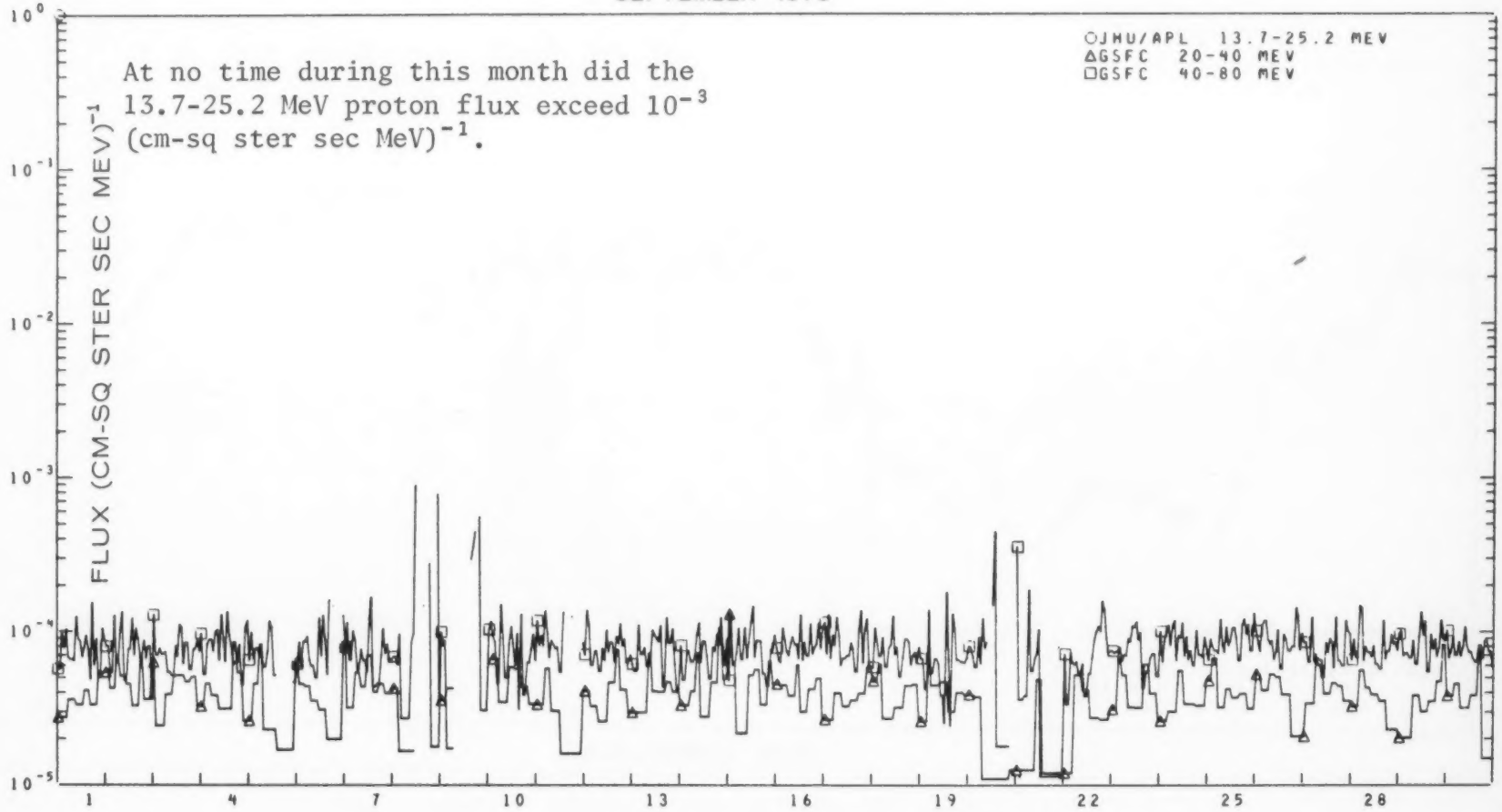
Misc
Sep 75

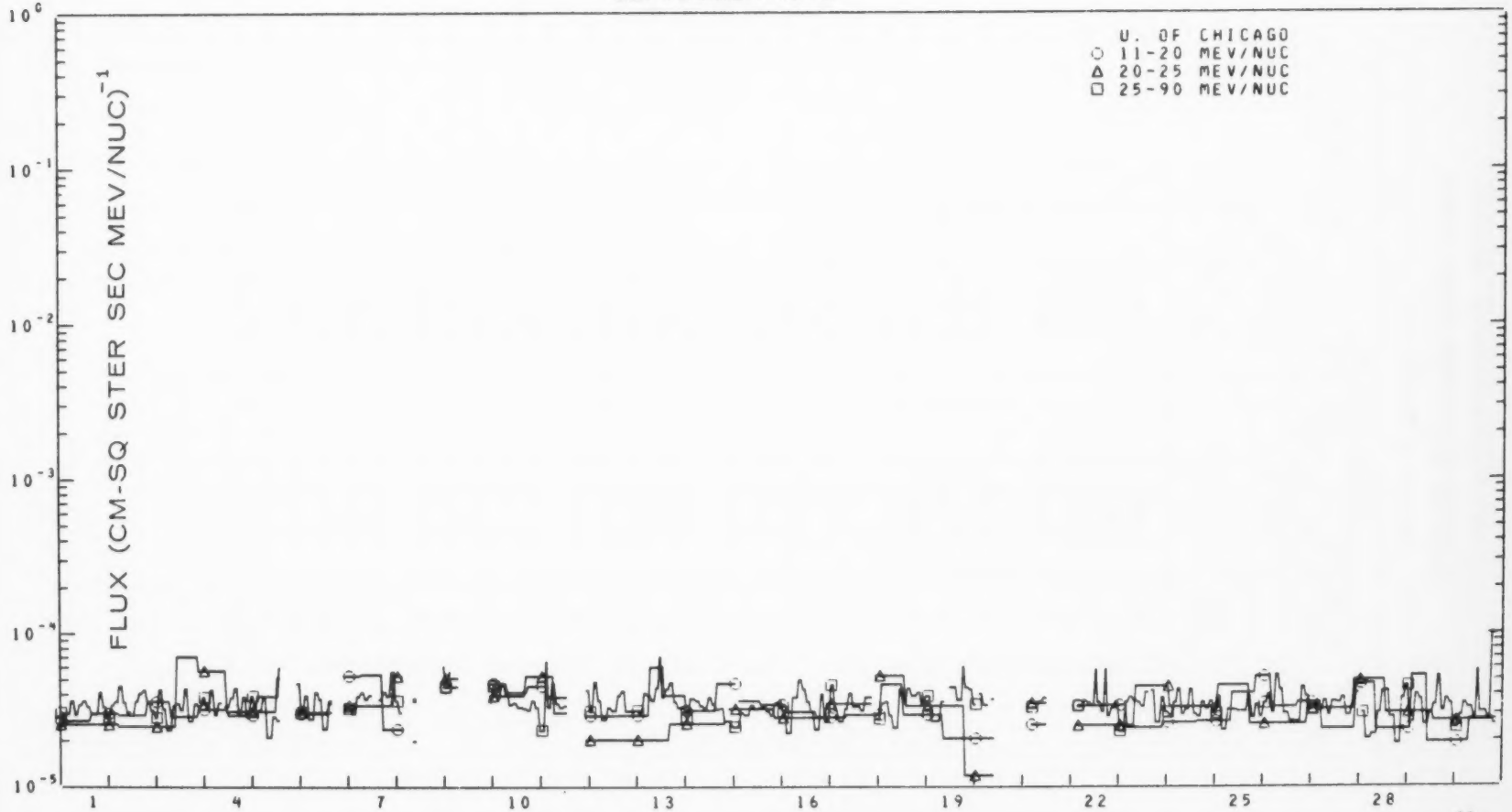
# IMP 7 AND 8 HIGH ENERGY PROTONS

## SEPTEMBER 1975



IMP 7 AND 8 ALPHA PARTICLES

SEPTEMBER 1975

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Misc
Sep 75

# COSMIC RAY INDICES

## (Neutron Monitors)

### FEBRUARY 1976

| | CALGARY | SULPHUR MT. |
|---|---|---|
| FEB 1976 | Average cts/hr | Average cts/hr |
| 1 | 11602.7 | 8764.7 |
| 2 | 11622.8 | 8783.0 |
| 3 | 11659.5 | 8832.1 |
| 4 | 11754.7 | 8891.4 |
| 5 | 11811.6 | 8926.2 |
| 6 | 11788.1 | 8901.4 |
| 7 | 11815.7 | 8922.4 |
| 8 | 11795.3 | 8963.4(11) |
| 9 | 11780.6 | 8982.2 |
| 10 | 11773.3 | 8973.3 |
| 11 | 11779.0 | 8957.8 |
| 12 | 11820.9 | 8995.0 |
| 13 | 11829.4 | 8998.3 |
| 14 | 11832.0 | 9007.3 |
| 15 | 11850.8 | 9019.3 |
| 16 | 11895.5 | 9075.8 |
| 17 | 11866.9 | 9055.2 |
| 18 | 11721.3 | 8942.0 |
| 19 | 11757.3 | 8959.8 |
| 20 | 11746.7 | 8928.6 |
| 21 | 11720.2 | 8897.7 |
| 22 | 11733.4(22) | 8914.7(23) |
| 23 | 11776.6 | 8969.7 |
| 24 | 11804.0 | 9004.2 |
| 25 | 11817.9 | 8996.8 |
| 26 | 11800.4 | 8966.0 |
| 27 | 11792.6 | 8951.4 |
| 28 | 11729.4 | 8952.4 |
| 29 | 11616.8 | 8867.7 |
| MEAN | 11768.5 | 8944.8 |

# SOLAR RADIO EMISSION
# SPECTRAL OBSERVATIONS
## FEBRUARY 1976

| FEB 1976 | TIMES OF OBSERVATION | | STATION | EVENTS | | | | | | | | | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DECIMETRIC BAND | | | METRIC BAND | | | DEKAMETRIC BAND | | | |
| | START UT | END UT | | START UT | END UT | INT | START UT | END UT | INT | START UT | END UT | INT | |
| 01 | 1203 | 2151 | SGMR | | | | | | | | | | |
| 02 | 1202 | 2153 | SGMR | | | | | | | | | | |
| 03 | 1201 | 2154 | SGMR | | | | | | | | | | |
| 04 | 1200 | 2155 | SGMR | | | | | | | | | | |
| 05 | 1158 | 2157 | SGMR | | | | | | | | | | |
| 06 | 1157 | 2158 | SGMR | | | | | | | | | | |
| 07 | 1156 | 2159 | SGMR | | | | | | | | | | |
| 08 | 1155 | 2201 | SGMR | | | | | | | | | | |
| 09 | 1154 | 2202 | SGMR | | | | | | | | | | |
| 10 | 1152 | 2203 | SGMR | | | | | | | | | | |
| 11 | 1151 | 2205 | SGMR | | | | | | | | | | |
| 12 | 1150 | 2206 | SGMR | | | | | | | 1908.3 | 1908.9 | 1 | V |
| 13 | 1148 | 2207 | SGMR | | | | | | | | | | |
| 14 | 1147 | 2209 | SGMR | | | | | | | | | | |
| 15 | 1146 | 2210 | SGMR | | | | | | | | | | |
| 16 | 1144 | 2211 | SGMR | | | | | | | | | | |
| 17 | 1143 | 2213 | SGMR | | | | | | | | | | |
| 18 | 1141 | 2214 | SGMR. | | | | | | | | | | |
| 19 | 1140 | 2215 | SGMR | | | | | | | | | | |
| 20 | 1139 | 2216 | SGMR | | | | | | | | | | |
| 21 | 1137 | 2218 | SGMR | | | | | | | | | | |
| 22 | 1135 | 2219 | SGMR | | | | | | | | | | |
| 23 | 1134 | 2220 | SGMR | | | | | | | | | | |
| 24 | 1132 | 2222 | SGMR | | | | | | | | | | |
| 25 | 1131 | 2223 | SGMR | | | | | | | | | | |
| 26 | 1129 | 2224 | SGMR | | | | | | | | | | |
| 27 | 1128 | 2225 | SGMR | | | | | | | | | | |
| 28 | 1126 | 2227 | SGMR | | | | | | | | | | |
| 29 | 1124 | 2228 | SGMR | | | | | | | | | | |
| 01 | 2225 | 2400 | MANI | | | | | | | | | | |
| 02 | 0000 | 0935 | MANI | | | | | | | | | | |
| | 2225 | 2400 | MANI | | | | | | | | | | |
| 03 | 0000 | 0937 | MANI | | | | | | | | | | |
| | 2225 | 2400 | MANI | | | | | | | | | | |
| 04 | 0000 | 0937 | MANI | | | | | | | | | | |
| | 2225 | 2400 | MANI | | | | | | | | | | |
| 05 | 0000 | 0937 | MANI | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | |

Addenda: The above reports were inadvertently omitted from the February 1976 Report of Spectral Observations published in April (380 Part I, pp. 102-105).

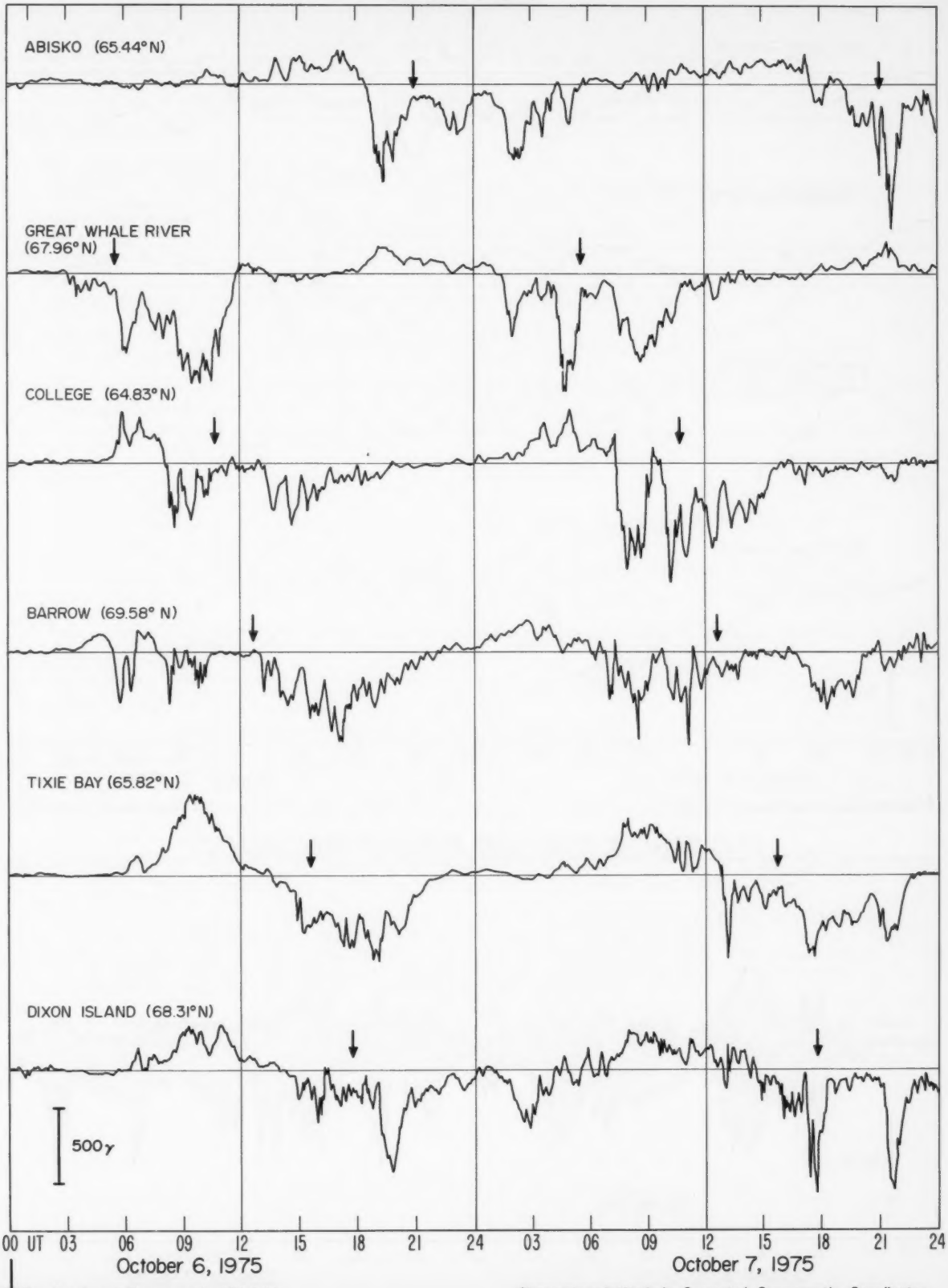
# SOLAR RADIO EMISSION
## SPECTRAL OBSERVATIONS
### FEBRUARY 1976

| FEB 1976 | TIMES OF OBSERVATION | | STATION | EVENTS | | | | | | | | | SPECTRAL TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DECIMETRIC BAND | | | METRIC BAND | | | DEKAMETRIC BAND | | | |
| | START UT | END UT | | START UT | END UT | INT | START UT | END UT | INT | START UT | END UT | INT | |
| 08 | 0000 | 0938 | MANI | | | | | | | | | | |
| | 2224 | 2400 | MANI | | | | | | | | | | |
| 09 | 0000 | 0939 | MANI | | | | | | | | | | |
| | 2223 | 2400 | MANI | | | | | | | | | | |
| 10 | 0000 | 0939 | MANI | | | | | | | | | | |
| | 0000 | 935 | MANI | | | | | | | | | | |
| | 2223 | 2400 | MANI | | | | | | | | | | |
| 11 | 0000 | 0939 | MANI | | | | | | | | | | |
| | 2222 | 2400 | MANI | | | | | | | | | | |
| 12 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2222 | 2400 | MANI | | | | | | | | | | |
| 13 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2222 | 2400 | MANI | | | | | | | | | | |
| 14 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2221 | 2400 | MANI | | | | | | | | | | |
| 15 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2221 | 2400 | MANI | | | | | | | | | | |
| 16 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2221 | 2400 | MANI | | | | | | | | | | |
| 17 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2219 | 2400 | MANI | | | | | | | | | | |
| 18 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | |
| 19 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | |
| 20 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | |
| 21 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | |
| 22 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2218 | 2400 | MANI | | | | | | | | | | |
| 23 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2217 | 2400 | MANI | | | | | | | | | | |
| 24 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2216 | 2400 | MANI | | | | | | | | | | |
| 25 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2215 | 2400 | MANI | | | | | | | | | | |
| 26 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2214 | 2400 | MANI | | | | | | | | | | |
| 27 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2214 | 2400 | MANI | | | | | | | | | | |
| 28 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2214 | 2400 | MANI | | | | | | | | | | |
| 29 | 0000 | 0940 | MANI | | | | | | | | | | |
| | 2213 | 2400 | MANI | | | | | | | | | | |

Addenda: The above reports were inadvertently omitted from the February 1976 Report of Spectral Observations published in April (380 Part I, pp. 102-105).

# H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

OCTOBER 6 & 7, 1975

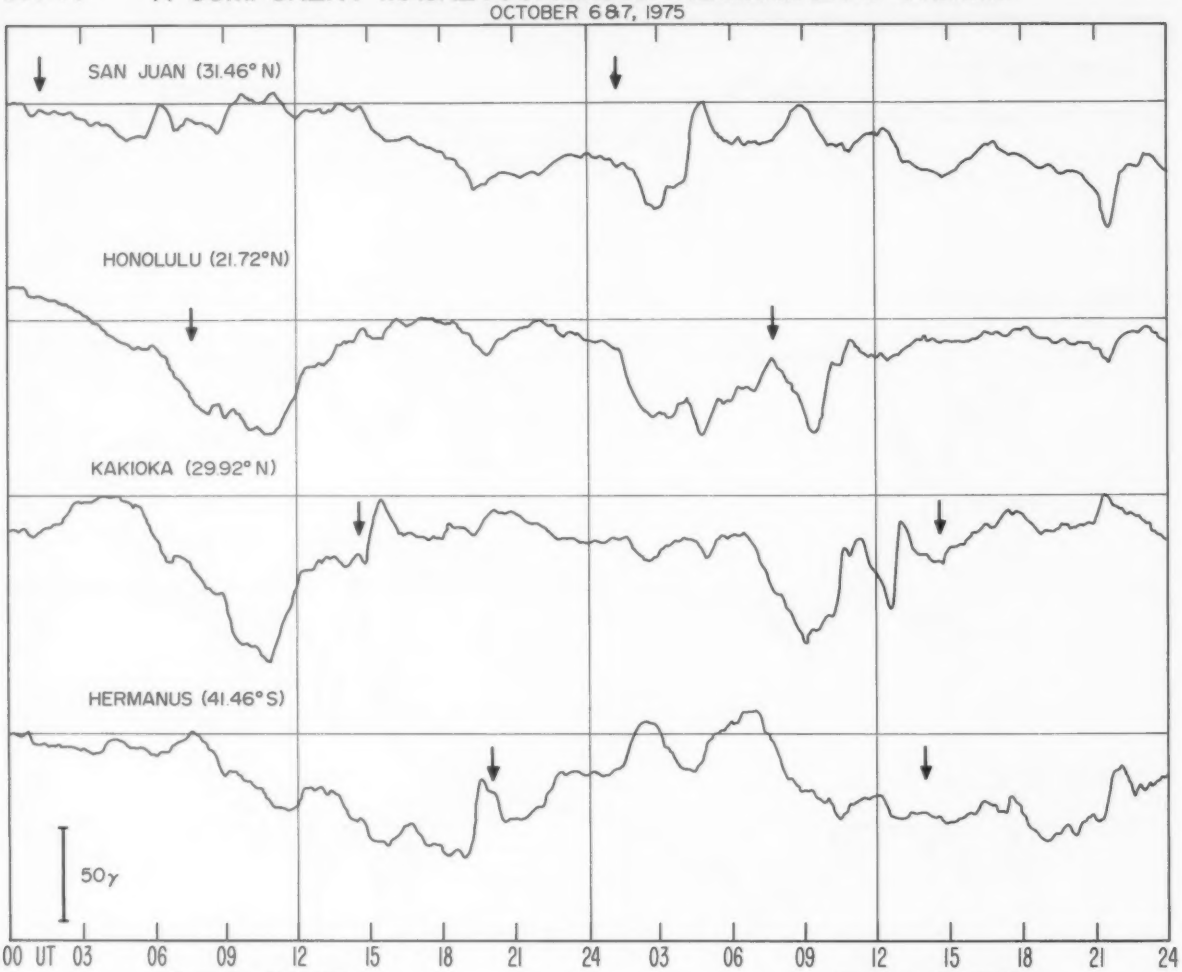

ABISKO (65.44°N)
GREAT WHALE RIVER (67.96°N)
COLLEGE (64.83°N)
BARROW (69.58° N)
TIXIE BAY (65.82°N)
DIXON ISLAND (68.31°N)
500γ
00 UT 03 06 09 12 15 18 21 24 03 06 09 12 15 18 21 24
October 6, 1975
October 7, 1975

▼ Denotes Local Geomagnetic Midnight

Observatory latitude in Corrected Geomagnetic Coordinates.

# H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

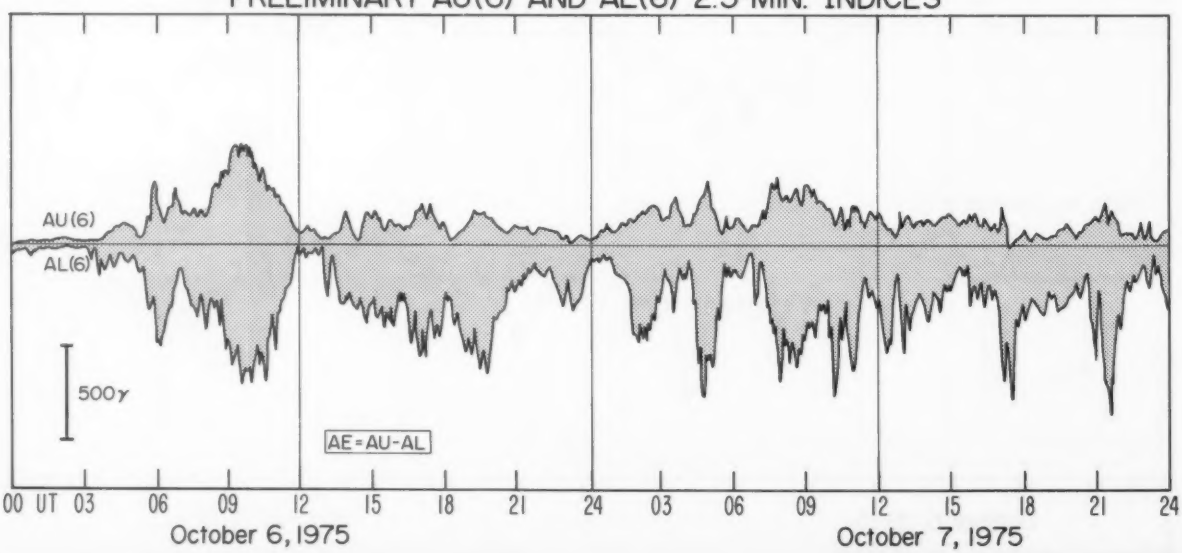
OCTOBER 6&7, 1975




↓ Denotes Local Geomagnetic Midnight

Observatory latitude in Corrected Geomagnetic Coordinates.

## PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



## UAG Series of Reports

Prepared by World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado, U.S.A.

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